

Service Manual

• KE-3700SDK/WG



ORDER NO.
CRT1326

CASSETTE CAR STEREO WITH FM/MW ELECTRONIC TUNER

KE-3700SDK

WG

KE-3700B

IT

CASSETTE CAR STEREO WITH FM/MW/LW ELECTRONIC TUNER

KE-3730B

EW

Note:

- See the separate manual CX-197 (CRT1328) for the cassette mechanism description.

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SAFETY INFORMATION

WARNING!

Lithium batteries. Danger of explosion. Replacement must be done by qualified personnel and only by following the instructions given in the service manual.

This warning is stated on the product or in the operating instructions. When replacing the lithium batteries, follow the note below.

Dispose of the used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.

The battery used in this device may present a fire or chemical hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate. Replace only with the same Part Number. Use of another battery may present a risk of fire or explosion.

Note: The lithium battery installation position is shown in the exploded view and the P.C. board pattern.

ADVARSEL!

Lithiumbatteri — Eksplosionsfare ved fejlagtig håndtering. Udskiftning må kun ske med batteri af samme fabrikat og type. Levér det brugte batteri tilbage til leverandøren.

Denne advarsel er angivet på produktet eller i brugsvejledningen. Ved udskiftning af lithium batterierne følges nedenstående anvisning. Batterierne må kun udskiftes med batterier af samme type og mærke.

VARNING

Explosionsfara vid felaktigt batteri-byte. Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren. Kassera använt batteri enligt fabrikantens instruktion.

Denna varning finns på apparaten eller i bruksanvisningen. Följ nedanstående anvisningar vid byte av litiumbatterier.

Batterierna får endast bytas ut mot litiumbatterier av samma typ och fabrikat.

1. SPECIFICATIONS

General

Power source 14.4 V DC (10.8 — 15.6 V allowable)
 Grounding system Negative type
 Max. current consumption 2.5 A
 Dimensions (chassis) 180(W) × 50(H) × 141(D) mm
 (front face) 188(W) × 58(H) × 16(D) mm
 Weight 1.3 kg

Amplifier

Maximum power output 8.5 W × 2/7 W × 4 (EIAJ)
 Continuous power output 4.5 W × 2/3.5 W × 4
 (1% dist. at 1 kHz)
 Load impedance 4 Ω (4 — 8 Ω allowable)
 Tone controls
 (bass) ±10 dB (100 Hz)
 (treble) ±10 dB (10 kHz)
 Loudness contour +10 dB (100 Hz), +4 dB (10 kHz)
 (volume: -30 dB)

Tape player

Tape Compact cassette tape (C-30 — C-90)
 Tape speed 4.76 cm/sec. (+0.14 cm/sec., -0.05 cm/sec.)
 Fast forward/rewind time Approx. 100 sec. for C-60
 Wow & flutter 0.13% (WRMS)
 Frequency response Metal: 50 — 17,000 Hz (±3 dB)
 Stereo separation 45 dB
 Signal-to-noise ratio
 Metal: Dolby B NR IN: 63 dB (IEC-A network)
 Dolby NR OUT: 55 dB (IEC-A network)

FM tuner

Frequency range 87.5 — 108 MHz
 Usable sensitivity 11 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
 50 dB quieting sensitivity 16 dBf (1.7 μV/75 Ω, mono)
 Signal-to-noise ratio 70 dB (IEC-A network)
 Distortion 0.3% (at 65 dBf, 1 kHz, stereo)
 Frequency response 30 — 15,000 Hz (±3 dB)
 Stereo separation 40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 — 1,602 kHz
 Usable sensitivity 18 μV (25 dB) (S/N: 20 dB)
 Selectivity 50 dB (±9 kHz)

LW tuner (KE-3730B)

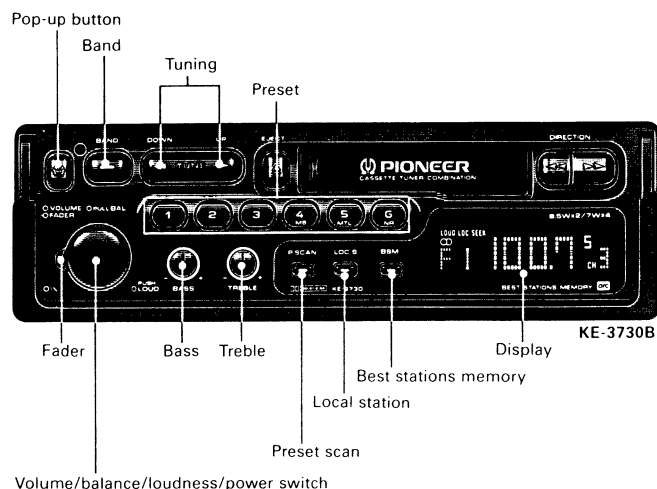
Frequency range 153 — 281 kHz
 Usable sensitivity 30 μV (30 dB) (S/N: 20 dB)
 Selectivity 50 dB (±9 kHz)

Note:

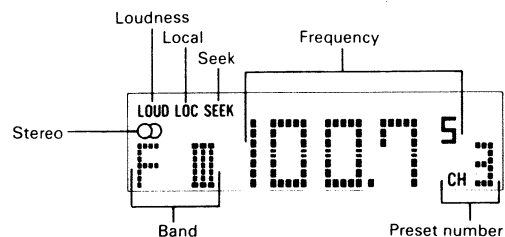
Specifications and the design are subject to possible modification without notice due to improvements.

2. USING THE RADIO

KE-3730B



KE-3730B



• Before attempting operation...

- Set the fader control to the left horizontal.
 - 1. Turning the power switch to the right causes power to switch ON and the current frequency to appear on the display.
 - Since the set is designed preferentially for tape play, eject a cassette tape, if mounted, before operating the radio.
 - 2. Press the band switch to select the band.
 - Switching between FM and MW/LW is controlled by the band switch. Switching between LW and MW is accomplished using the tuning button. The MW band is from 531 kHz to 1,602 kHz, and the LW band is from 153 kHz to 281 kHz.
 - 3. Press both ends of tuning button and the seek tuning indicator will appear on the display.
 - 4. Press either the left or right side of the tuning button to tune in the desired frequency. (Pressing the right side will increase the frequency.)
 - 5. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.
 - To enter a frequency into the preset memory...
 - 6. Hold down one of the preset buttons (1-6) for approximately two seconds. The frequency is stored in memory (assigned to the preset button pressed) once the preset number stops flashing on the display.
- Six FM1 frequencies, six FM2 frequencies, six FM3 frequencies and six MW and LW frequencies can be entered.

• Best Stations Memory Button

Automatically tunes strong frequencies and assigns them to preset buttons 1 through 6 for one-touch automatic tuning. The best stations memory function is activated by pressing this button for approximately 2 seconds. The best stations memory function is indicated by ——— flashing on the display, and this function can be canceled by pressing the band switch. The frequency display returns once the best stations memory function is complete. The frequency displayed at this time is of the strongest station assigned to preset button 1 by the best stations memory function.

- 6 best (strongest) frequencies are memorized in the 6 preset buttons in the order of their strength, the strongest one being assigned to preset button 1.
- The frequencies previously assigned to the preset buttons are retained when 6 frequencies cannot be located.
- The best stations memory is in operation while ——— is flashing on the display.

• Local Station Switch

Pressing this switch increases the seek threshold level so that only relatively strong stations can be tuned in (local indicator will illuminate on the display). Local seek threshold level can be selected among four levels for FM and two levels for MW and LW. Holding this switch down for approximately 2 seconds and then pressing the right side of the tuning button changes the display from L-1, L-2, L-3 to L-4. Pressing the left side of the tuning button changes the display from L-4, L-3, L-2 to L-1 (L-1 and L-2 for MW/LW). The bigger the number, the higher the seek threshold becomes and only relatively strong stations can be tuned in.

• Fader Control

This control is used to adjust the balance between the front and rear speakers when using a 4-speaker system. Turning the control upwards decreases the volume of the rear speakers, while turning it downwards decreases the volume of the front speakers. With 2-speaker systems, set this control to a horizontal position.

A considerable amount of sound will continue to be produced from speakers of a 4-speaker system which have been cut by setting the fader control either to the front speakers or rear speakers. This is normal and does not indicate malfunction.

• Loudness Switch

When playing back a tape or listening to the radio at low volume, the low tone is emphasized and more clearly heard by pressing this switch.

Treble is emphasized automatically when the volume is turned down, regardless of whether the switch is on or off.

Seek Tuning

Press both ends of tuning button and tuning to the next higher or lower broadcast on the band can be accomplished automatically by simply pressing either the right or left side of the tuning button. FM frequencies change in 50 kHz steps while those in the MW and LW bands change in 9 kHz steps.

Preset Scan Tuning

Pressing the preset scan button (CH indicator flashes) causes previously stored frequencies to be tuned in sequentially for eight seconds each. Press again when the desired frequency is tuned in to cancel preset scan tuning.

Preset Tuning

Pressing the preset button instantly tunes in the frequency programmed in the memory for that button.

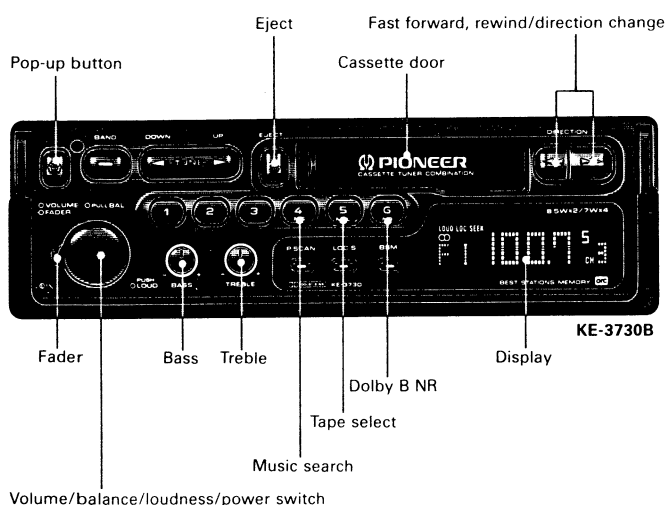
Manual Tuning

When manual tuning is employed, FM frequencies change in 50 kHz steps, LW frequencies change in 1 kHz steps, and MW frequencies change in 9 kHz steps.

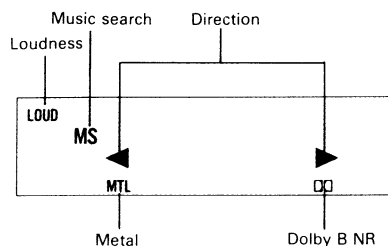
1. Press both ends of tuning button and the seek tuning indicator will disappear from the display.
2. Change the frequency by pressing either the left or right side of the tuning button. Pressing the button once will change the frequency one step (see above). Continuously depressing either side of the button will successively change the frequency at the prescribed step.

3. USING THE TAPE DECK

KE-3730B



KE-3730B



● Before attempting operation...

- Set the fader control to the left horizontal.
1. Turning the power switch to the right causes power to switch ON.
 2. Loading a cassette tape into the load slot causes playback to begin automatically.
 3. Adjust the volume and balance. To adjust the balance, first pull the knob until a click is heard. After setting to the desired level, push the knob in again to its original position.

● Pop-up button

When the quickrelease handle is on the bottom, push the button to move it up slightly. Push it when you remove the unit from the dashboard.

The button works only when the handle lock is released.

- A loose or warped label on a cassette tape may interfere with the eject mechanism of the unit or cause the cassette to become jammed in the unit. Avoid using such tapes or remove such labels from the cassette before attempting use.
- Do not try to eject the cassette immediately after insertion, as it will cause malfunction. Wait a few seconds.
- Loose tapes should be rewound with the aid of a pencil and unevenly wound tapes rewound with the use of the fast forward function.
- Be sure to eject the tape when the vehicle's ignition is turned OFF. Leaving the tape in the unit can deform the pinch roller causing wow and flutter during tape playback.

● Fast Forward/Rewind

Since the transport can be in either direction, both the left and right high-speed tape transport buttons can be regarded as fast forward/rewind buttons.

For fast forward, press the high-speed tape transport button that corresponds to the direction that is shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the opposite side of the tape (Auto-reverse).

For rewind, press the button that is opposite that of the direction shown by the direction indicator. When the end of the tape is reached, playback will automatically begin from the beginning of the same side of the tape (Auto-replay).

Fast forward and rewind can be terminated by pressing the respective opposite high-speed tape transport button.

● Direction Change

Push the fast forward and rewind buttons together to switch from one side of the tape to the other (from Side A to Side B or vice versa).

● Dolby B NR Switch

Press when playing a tape recorded with Dolby NR.

● Tape Select Switch

This switch is used to switch to the proper mode for the tape being used and should be depressed when using chrome or metal tapes.

Music Search

● Returning to the beginning of selection A

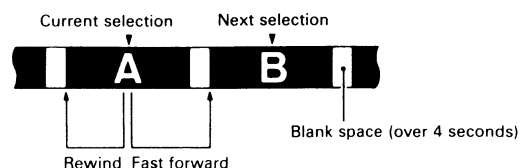
Press the music search button and then the high-speed tape transport button for the direction opposite that is shown by the direction indicator. Playback will automatically start from the beginning of selection A.

● Moving from selection A to selection B

Press the music search button and then the high-speed tape transport button that corresponds to the direction shown by the direction indicator. Playback will automatically start from the beginning of selection B.

To enable regular fast forward/rewind operations, press the music search button again to turn the function OFF. The following errors will cause the music search function to operate improperly, even though the unit is not malfunctioning.

- Unrecorded "blank" portions between selections less than 4 seconds → the blank portion cannot be detected by the unit.
- Pauses in recorded conversations longer than 4 seconds → the unit reads these as blanks between selections.
- Portions recorded at very low volume for more than 4 seconds → the unit reads these as blanks between selections.



4. CONNECTIONS

Note:

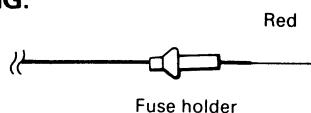
- To avoid shorts in the electrical system, be sure to disconnect the battery ⊖ cable before beginning installation.
- Replace the fuse only with the type stipulated on the fuse holder.
- Be sure to properly connect the color coded leads. Failure to do so can cause malfunctions.
- Cover unused terminals with tape to prevent electrical shorts.

Black (ground)	To vehicle (metal) body.
Blue	To auto-antenna power terminal (Max. 300 mA 12 V DC).
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

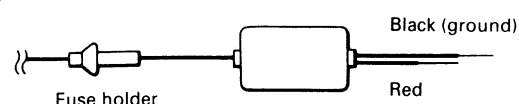
ERRATUM (KE-3700SDK)

There is a mistake in the "Connections" section in the Owner's Manual. The red lead in the illustration should be changed as follows:

WRONG:



RIGHT:

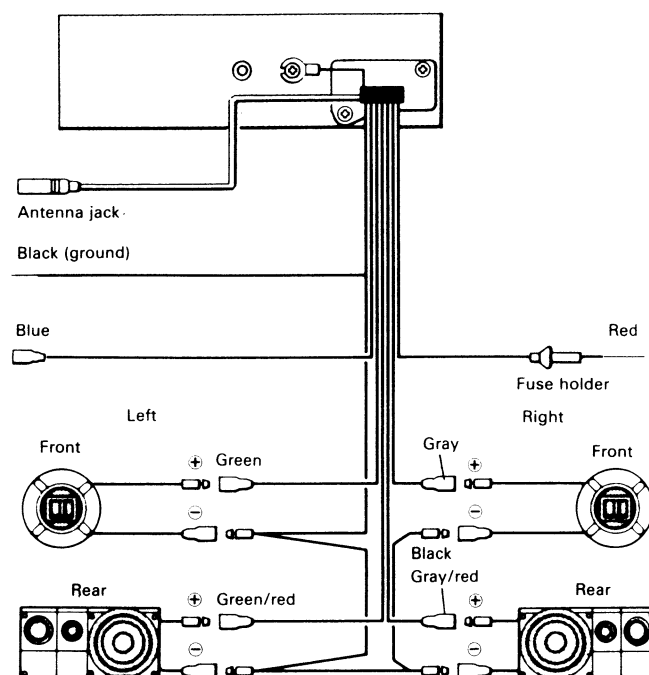


Black (ground)	To vehicle (metal) body.
Red	To electric terminal controlled by ignition switch (12 V DC) ON/OFF.

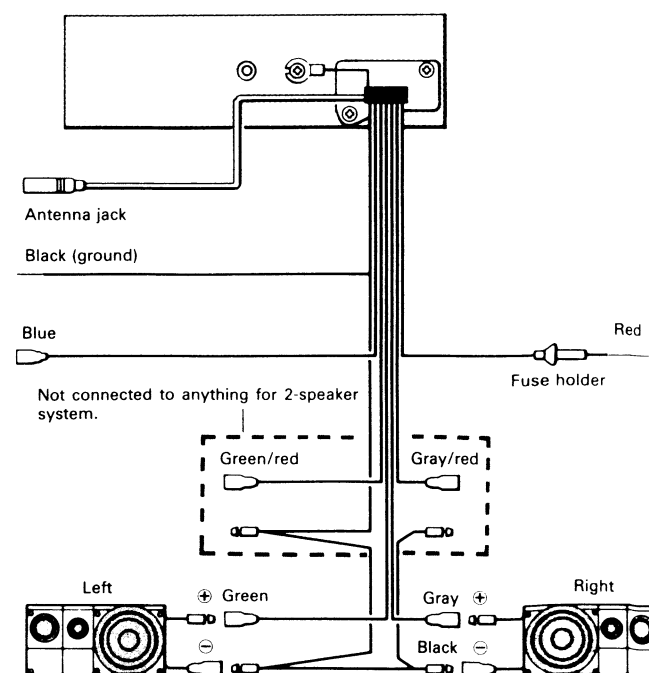
• CAUTION

It is very dangerous to short the red and black leads together. Before connecting the leads, read the "Connections" section in the Owner's manual, and connect the leads carefully.

4-speaker system



2-speaker system



5. DISASSEMBLY

● Removing the Case

1. Insert and turn a screwdriver to remove the case.
2. Raise the case to remove.

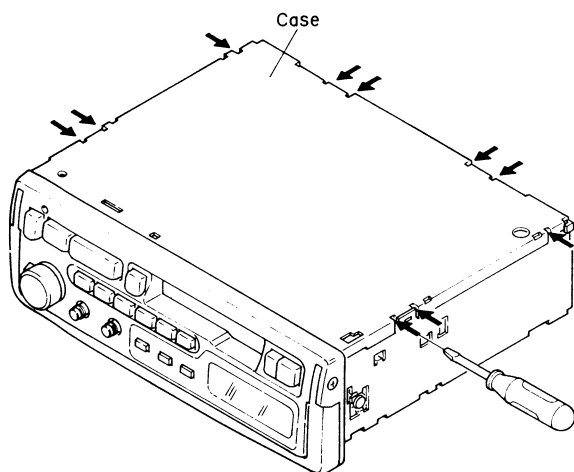


Fig. 1

● Removing the Handle

1. Remove the two screws, and then remove the handle.

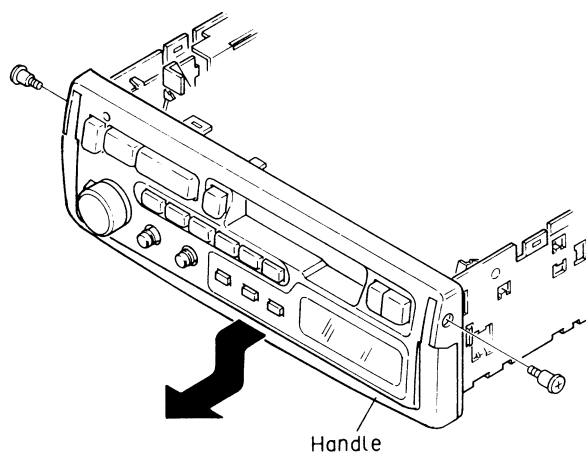


Fig. 2

● Removing the Grille Assy

1. Remove the two knobs.
2. Press the tabs at four locations, and then pull out the grille assy.

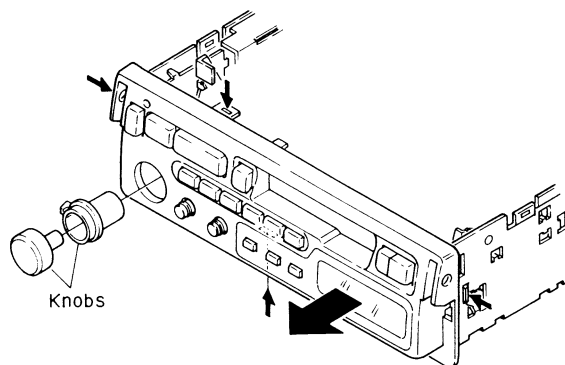


Fig. 3

● Removing the Cassette Mechanism Assy

1. Disconnect the connector.
2. Remove the four screws A and four screws B.
3. Remove the cassette mechanism assy.

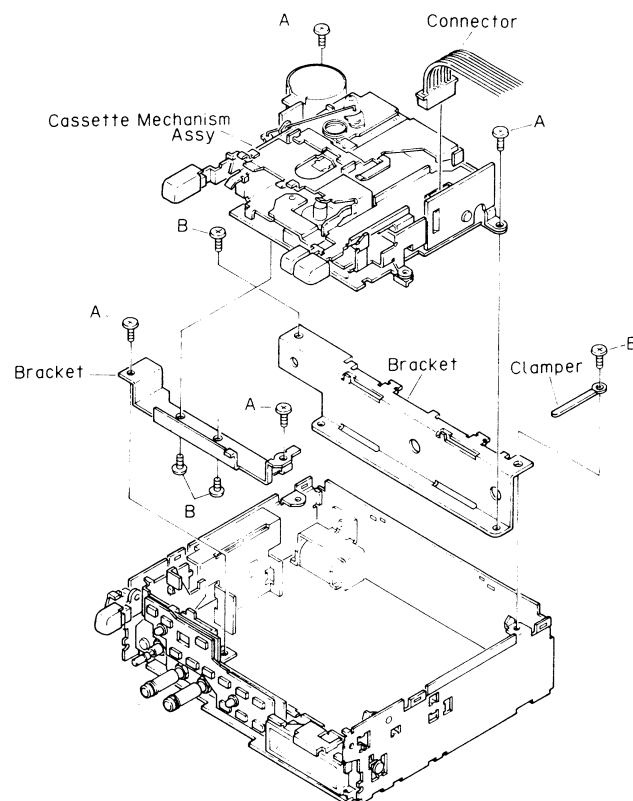


Fig. 4

- **Removing the SDK P. C. Board (KE-3700SDK)**

1. Pull out the SDK P. C. Board.

- **Removing the Dolby NR P. C. Board**

1. Pull out the Dolby NR P. C. Board.

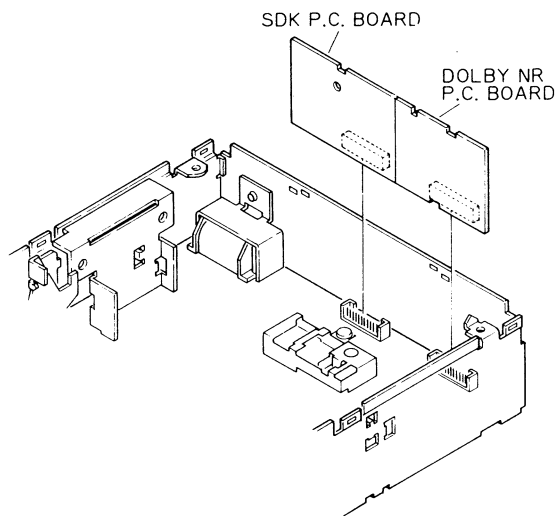


Fig. 5

- **Removing the Tuner Amp Unit**

1. Remove the four screws C.

2. Raise up on tuner amp unit to remove it from the chassis unit.

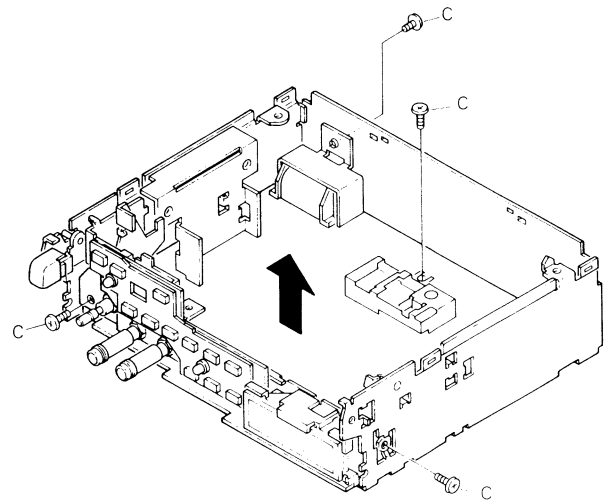


Fig. 6

6. ADJUSTMENT

● Connection Diagram

NOTICE:

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.

Z: Output impedance of SSG.

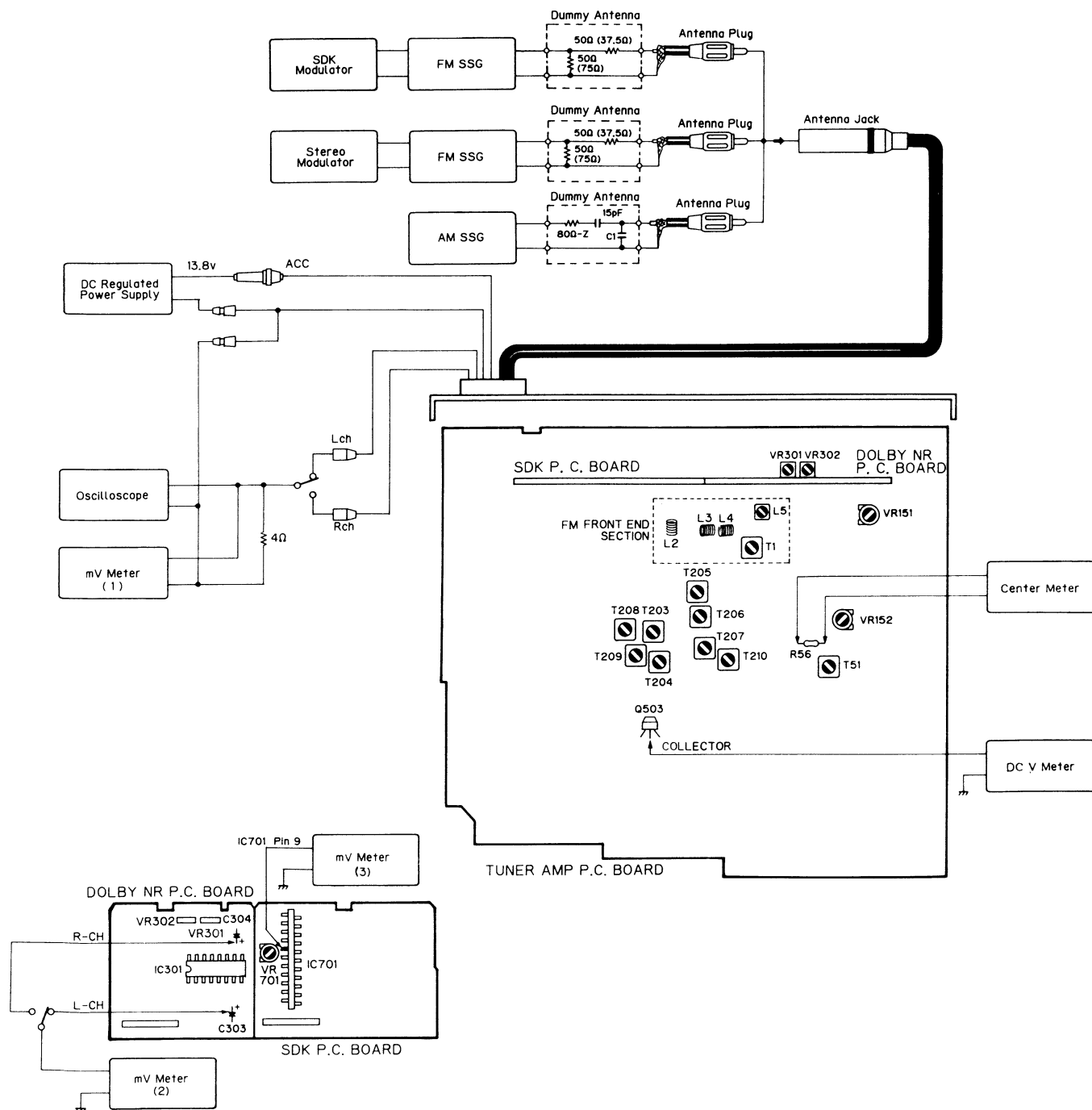


Fig. 7

DOLBY NR ADJUSTMENT

No.	Cassette Tape	Adjusting Point	Adjustment Method (Switch Position)
1	NCT-150 (400Hz, 200nwb/m)	VR301 (Lch) VR302 (Rch)	mV Meter (2) : $-10\text{dBs} \pm 1\text{dB}$ (DOLBY NR Switch: OFF)

FM ADJUSTMENT ※1 Stereo MOD. : Pilot=10%
 ※2 Stereo MOD. : 1kHz, L+R=90% , Pilot=10%

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
Tuning Volt	1	—	—	108.0	L5	DC V Meter: 7.0V
Tra- cki- ng	1	98.1	15	98.1	L2, L4	mV Meter (1) : Maximum
	2	98.1	15	98.1	T1	mV Meter (1) : Maximum
IF	1	98.1 Unmodulated	65	98.1	T51	Center Meter: 0
Pil- ot Can- cel	1	98.1※1	65	98.1	VR151	mV Meter (1) : Minimum (MPX Filter: OFF)
ARC	1	98.1※2	40	98.1	VR152	mV Meter (1) : Separation 5dB

MW ADJUSTMENT (KE-3700SDK, KE-3700B)

	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dBμV)			
Tun- ing Volt	1	—	—	530	T210	DC V Meter: 1.0V
Tra- cki- ng	1	1,000	20	1,000	T203, 204, 205, 206	mV Meter (1) : Maximum

MW/LW ADJUSTMENT (KE-3730B)

	No.	AM SSG (400Hz, 30%)		Displayed Frequency (kHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (kHz)	Level (dBμV)			
Tun- ing Volt	1	—	—	531	T210	DC V Meter: 1.0V
	2	—	—	153	T207	DC V Meter: 3.0V
Tra- cki- ng	1	999	20	999	T203, 204, 205, 206	mV Meter (1) : Maximum
	1	216	20	216	T208, 209	mV Meter (1) : Maximum

SDK ADJUSTMENT (KE-3700SDK) ※3 : SDK MOD. : SK (57kHz)=5%

	No.	FM SSG (400Hz, 100%)		Displayed Frequency (MHz)	Adjusting Point	Adjustment Method (Switch Position)
		Frequency (MHz)	Level (dBf)			
	1	98.1※3	65	98.1	VR701	mV Meter (3) : Maximum

7. BLOCK DIAGRAM

• KE-3700B

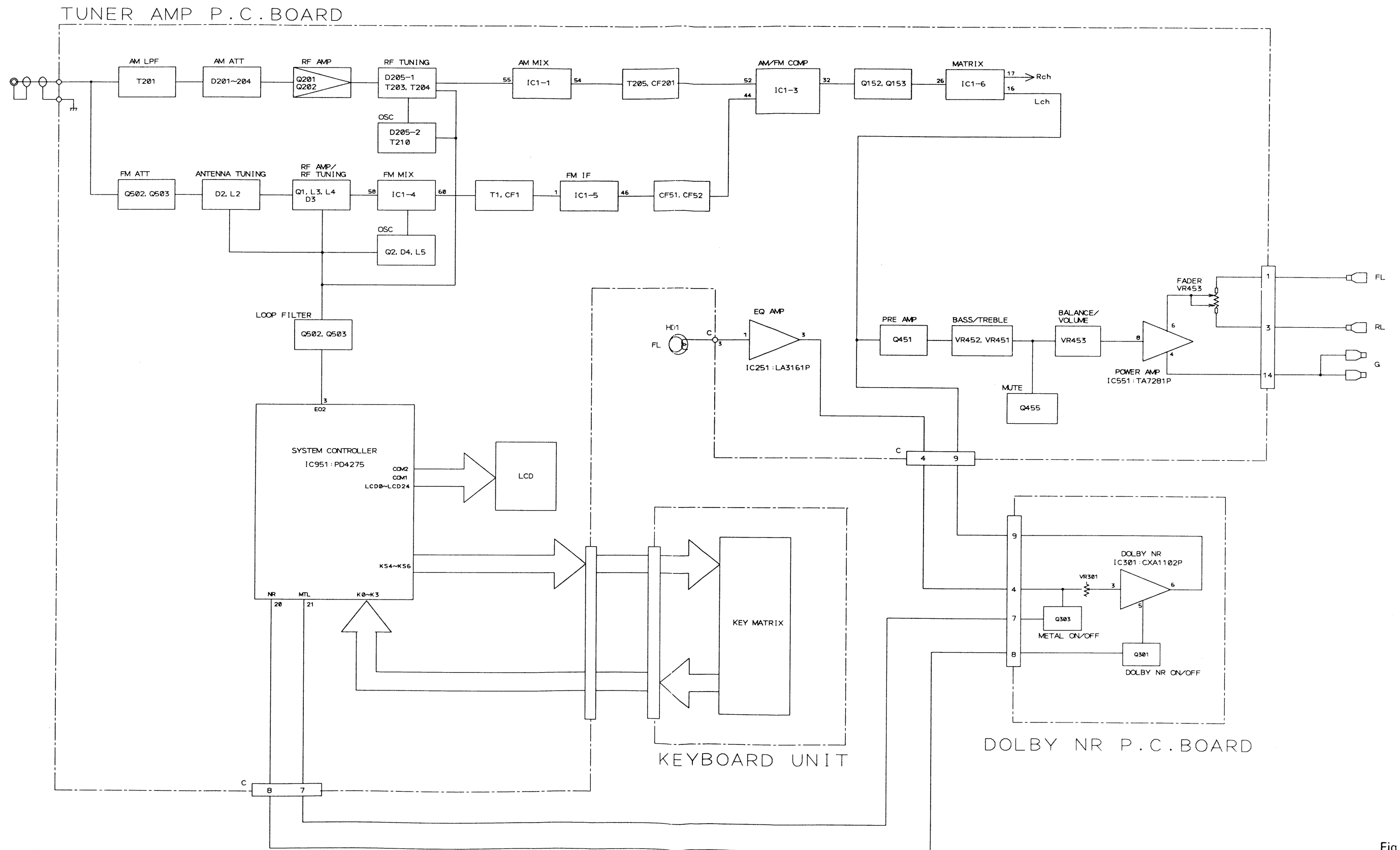
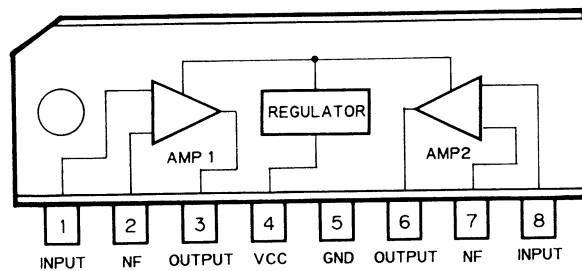


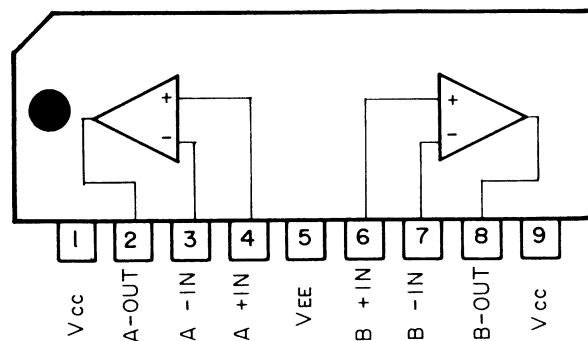
Fig. 8

• ICs

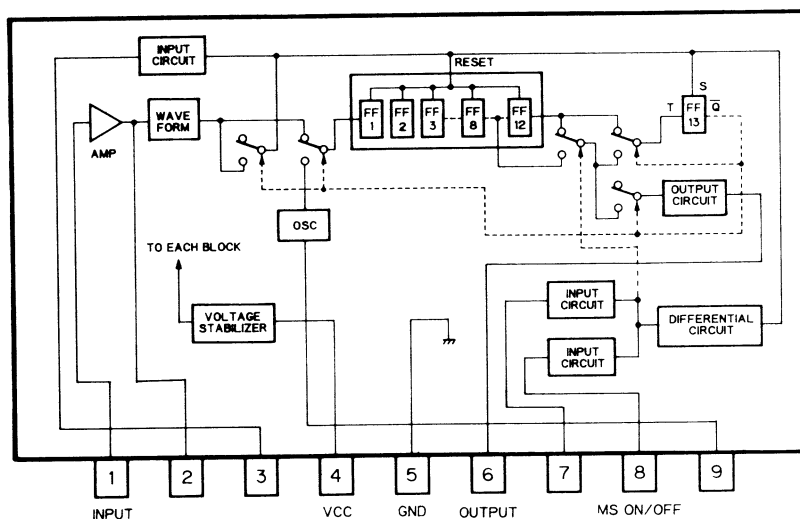
LA3161P



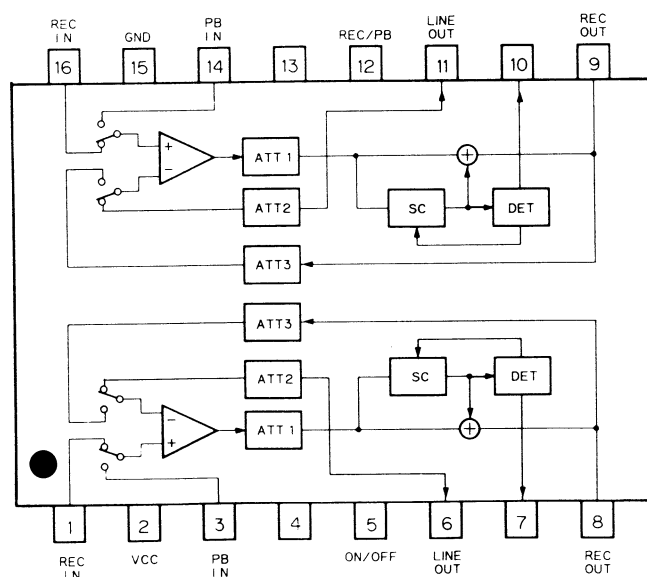
TA75558S



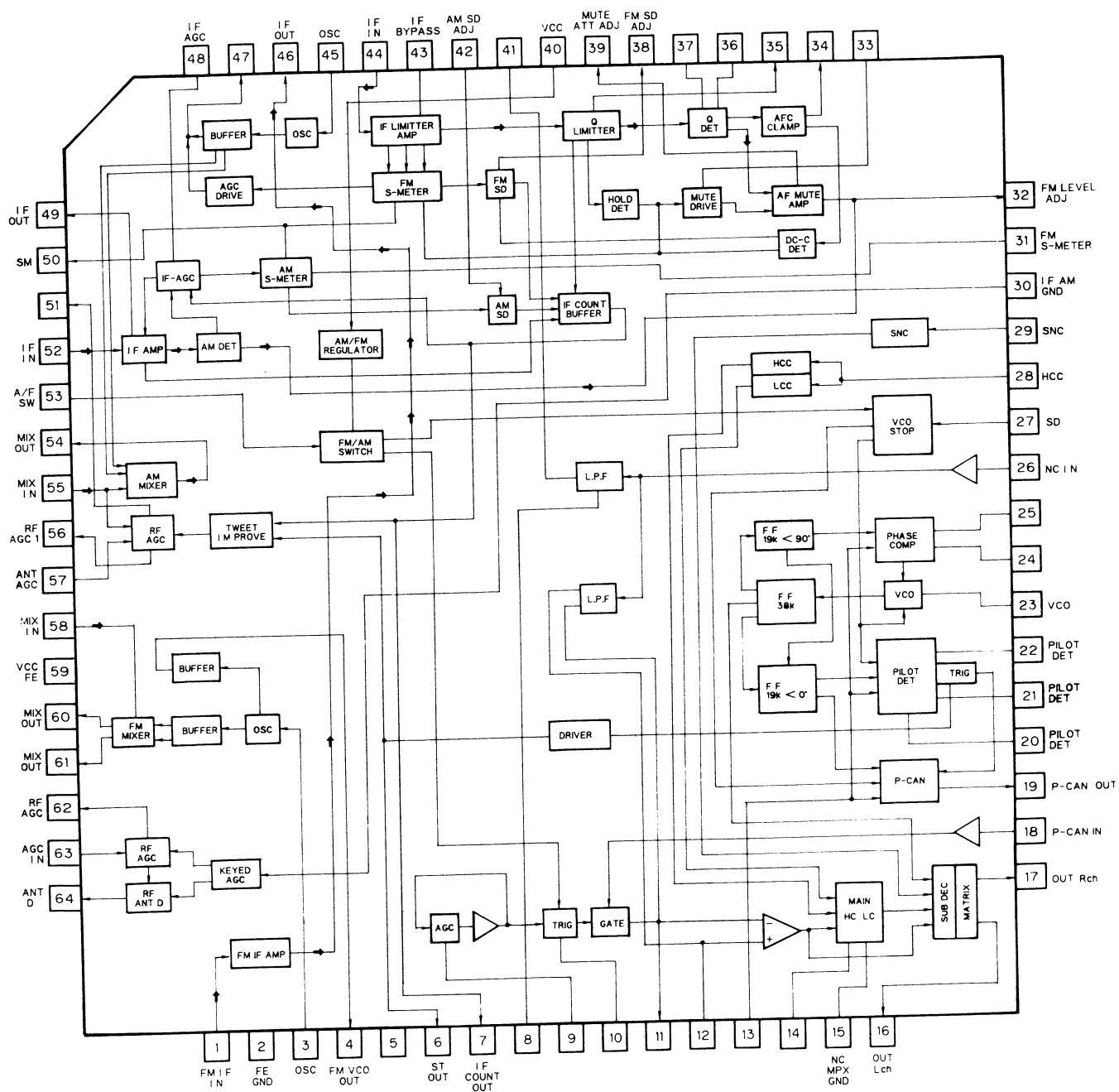
AN6263N

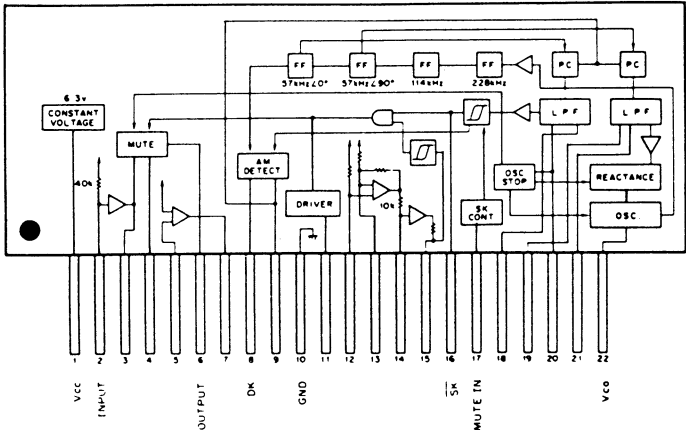
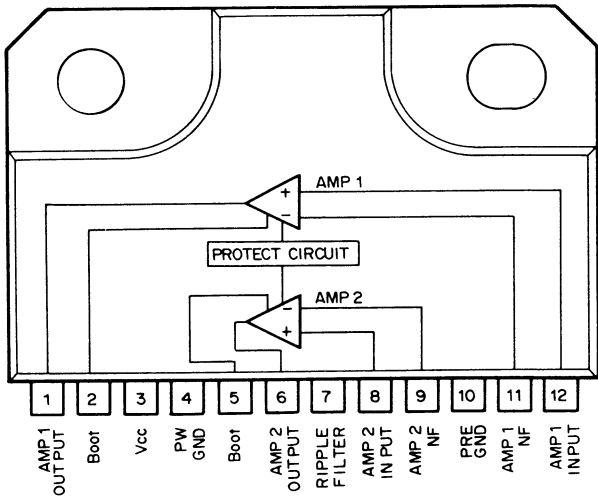


CXA1102



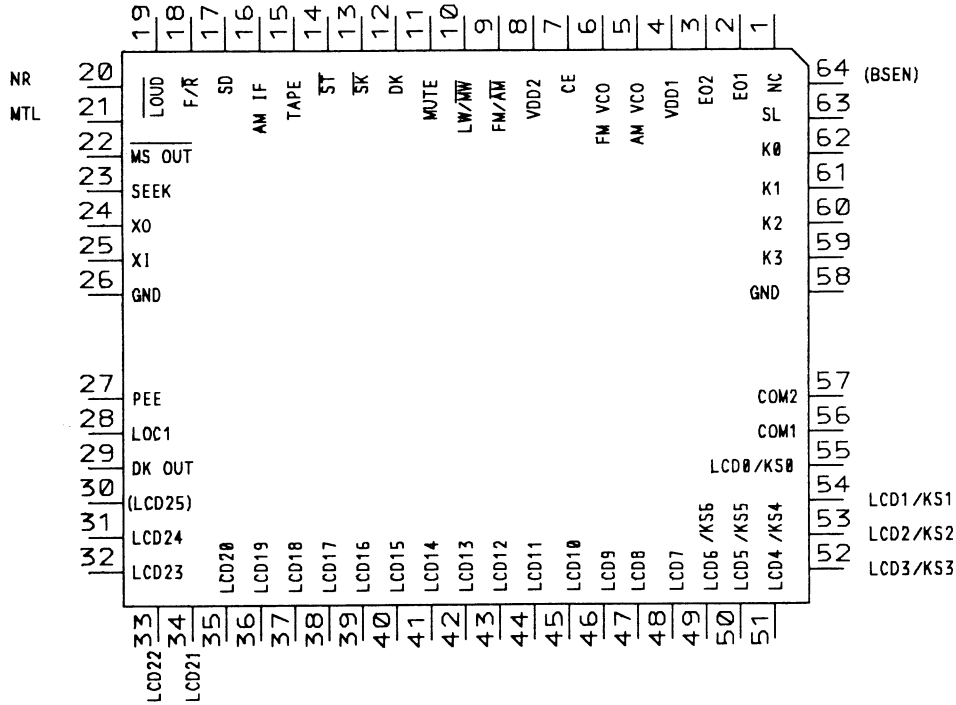
PAC001A





*PD4275

IC's marked by * are MOS type.
Be careful in handling them because they are very
liable to be damaged by electrostatic induction.



● Pin Function (PD4275)

Pin No.	Pin Name	I/O	Output Format	Function and Operation
1	NC		C	Not used
2	EO1	Output	C(3)	PLL error output pins
3	EO2			
4	VDD1			Device power supply pin
8	VDD2			
5	VCOL	Input		AM local oscillator signal input pin
6	VCOH	Input		FM local oscillator signal input pin
7	CE	Input		Chip enable input pin
9	FM/AM	Output	C	FM/AM band select pin "H":FM "L":AM
10	LW	Output	C	Loop filter switching output pin "H":LW
11	MUTE	Output	C	Mute output pin "H":ON
12	DK	INPUT		SK signal input pin
13	SK	INPUT		DK signal input pin
14	ST	Input		Stereo broadcast detection signal input pin "L":Stereo indicator is displayed
15	TAPE	INPUT		Tape power ON/OFF input pin "H":ON
16	AMIF	Input		AM IF signal input pin
17	SD	Input		FM SD input "H":During broadcast reception
18	F/REV	Input		Tape motion signal input pin "H":Forward
19	LOUD	Input		Loudness ON/OFF signal input pin "L":ON
20	NR	Output	C	Dolby NR ON/OFF output pin "H":ON
21	METAL	Output	C	Tape METAL ON/OFF output pin "L":ON
22	MSOUT	Output	C	Tape MS ON/OFF output pin "L":ON
23	SEEK	Output	C	"H" level:SEEK, BSM, BSA and PSCAN
24	XO	Output	C	Quartz oscillator terminal
25	XI	Input		
26	GND			GND terminal
27	PEE	Output	C	Alarm output pin
28	LOC1	Output	C	Halt sensitivity switching pin "L":DX SEEK(P,SCAN) "H":LOC SEEK
29	DKOUT	Output	C	Control by DK (terminal #12) input signal "H":DK input signal is detected as 125Hz
30	NC			Not used

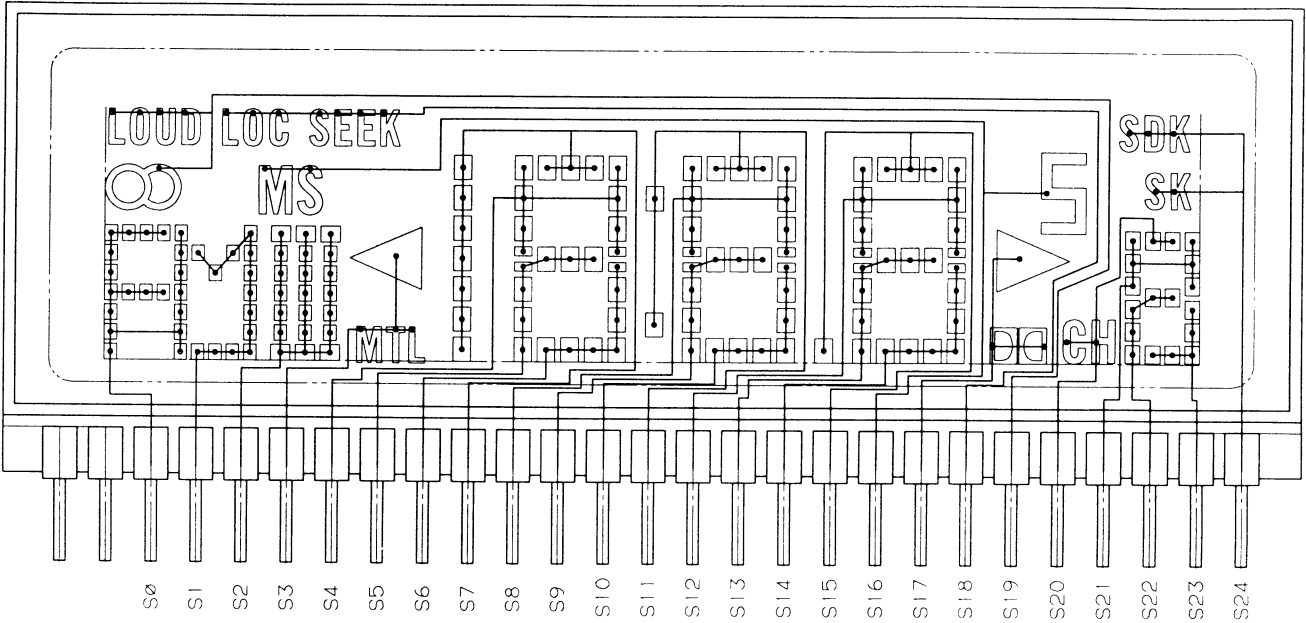
Pin No.	Output
31	
55	
48	
55	
56	
57	
59	
62	
63	
64	

Pin No.	Pin Name	I/O	Output Format	Function and Operation
31 | 55	LCD24 | LCD0	Output	C	Segment signal output pins to LCD
48 | 55	KS7 | KS0	Output	C	Key matrix strobe output pins
56 57	COM1 COM2	Output	C	Common signal output pins to LCD
59 | 62	K3 | K0	Input		Key matrix return input pins
63	SL	Input		AM station level analog input pin
64	NC		C	Not used

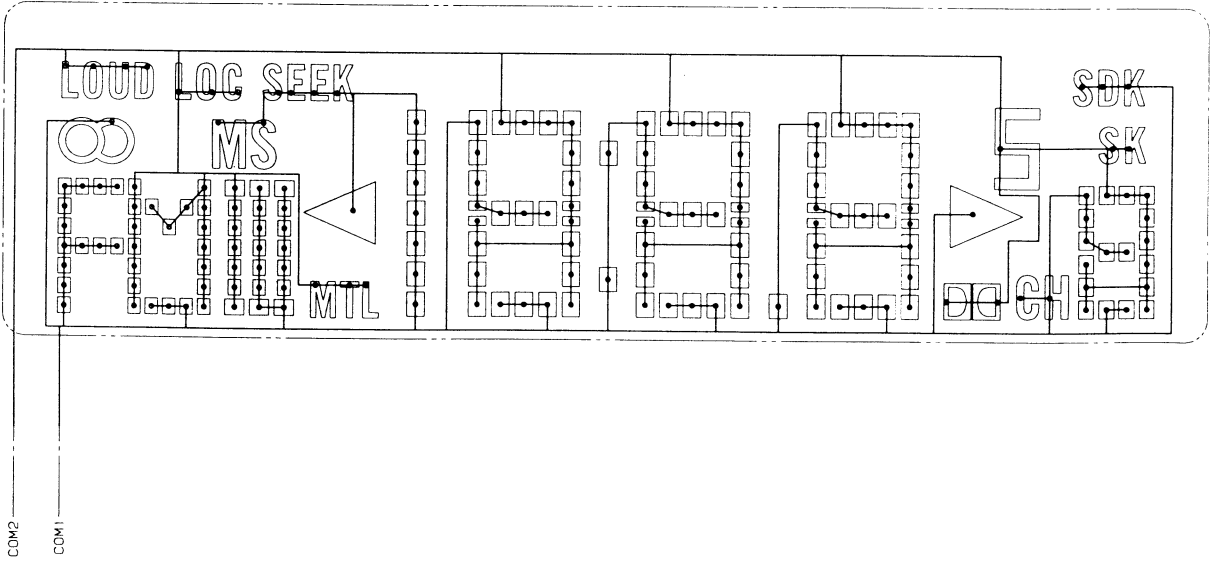
Output format	Meaning
C	C-MOS
C (3)	C-MOS (3 State)

• LCD(CAW1097)

SEGMENT



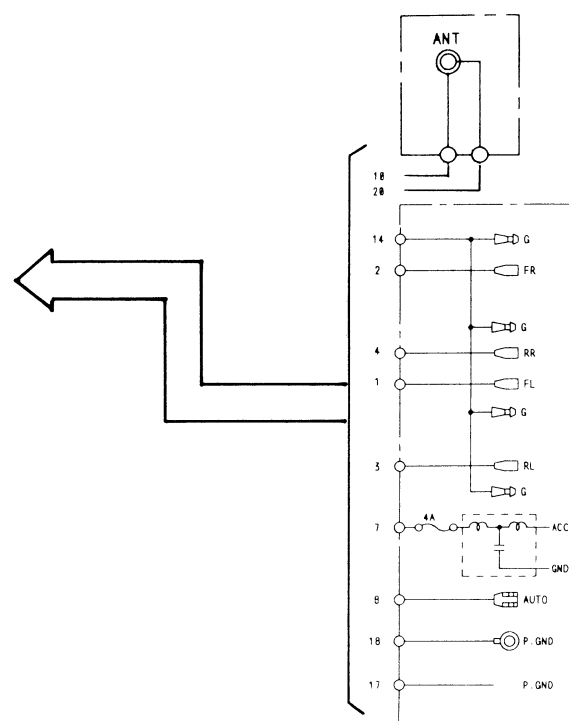
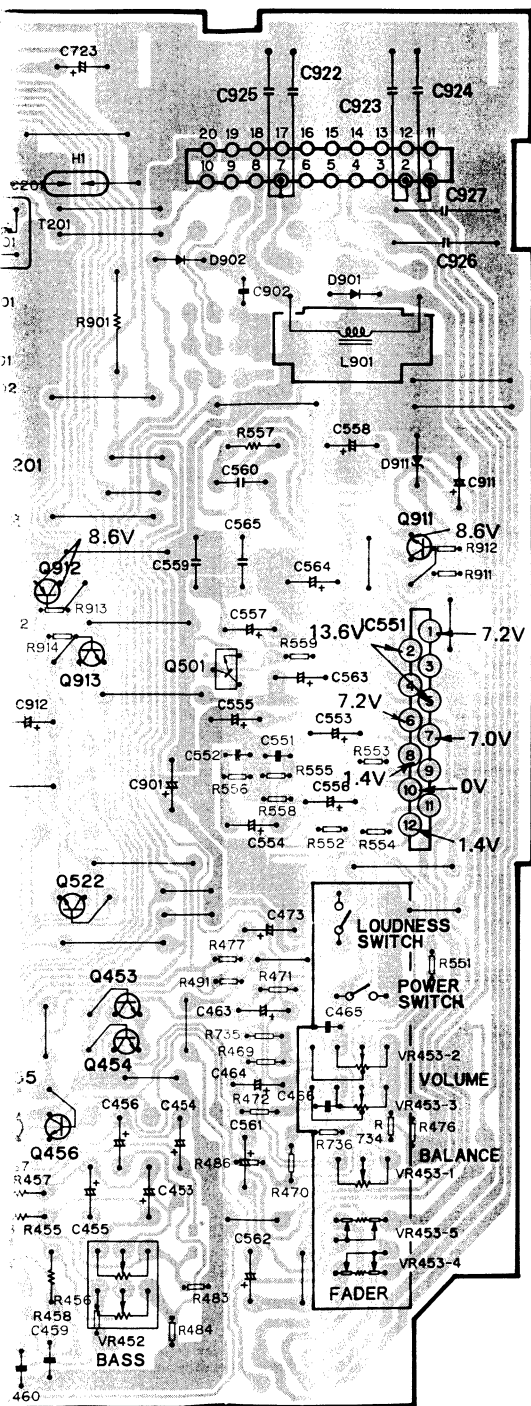
COMMON



Q912 Q913
Q522
Q456 Q453
Q455 Q454

Q501

Q911
IC551



TUNER AMP P.C. BOARD: IC1

1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

(FM/MW)

SDK P.C. BOARD

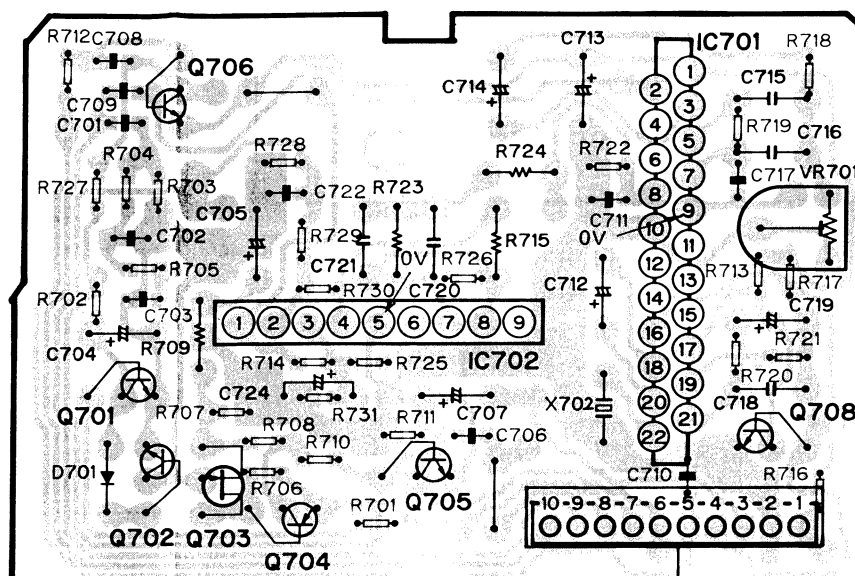
Q706 Q703

IC. Q Q701 Q702 Q704 IC702 Q705

IC701 Q708

ADJ

VR701



DOLBY NR P.C. BOARD

Q401

IC. Q

IC301

Q301

Q304

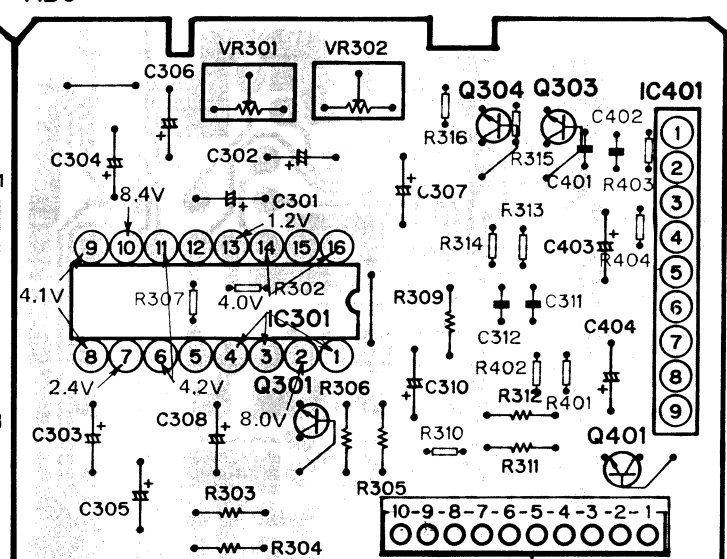
Q303

IC401

ADJ

VR301

VR302



KEYBOARD UNIT

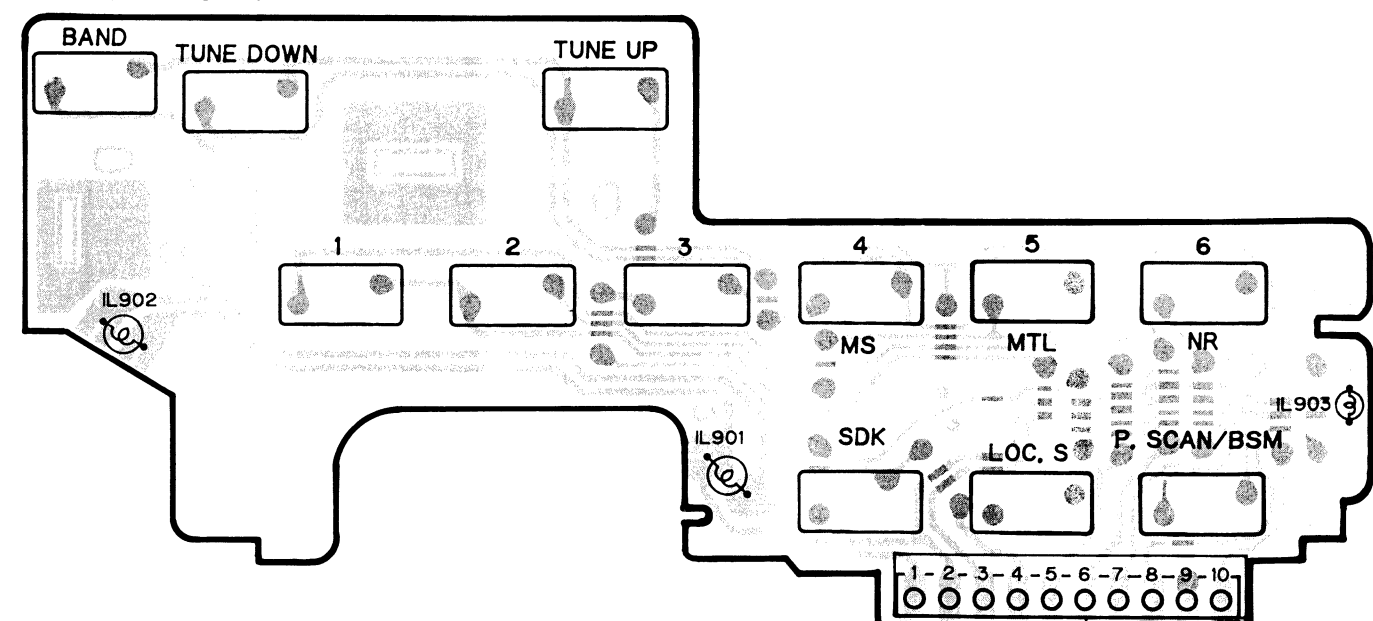
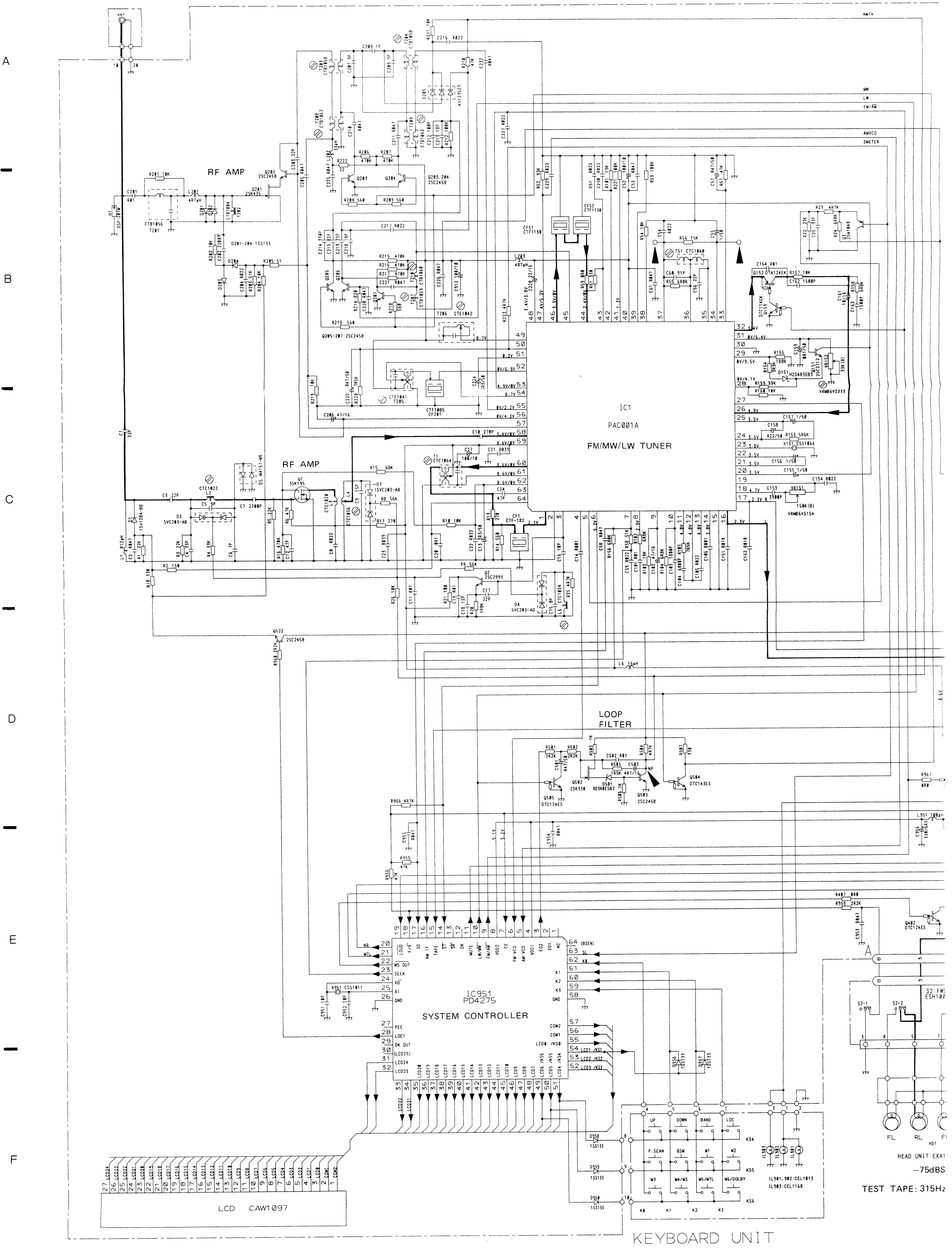


Fig. 9

10. SCHIMATIC CIRCUIT DAIAGRAM (KE-3730B)



TUNER AMP UNIT
Consists of
● DOLBY NR P.C. BOARD
● TUNER AMP P.C. BOARD

NOTE:

- Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
- ⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

TUNER AMP P.C. BOARD

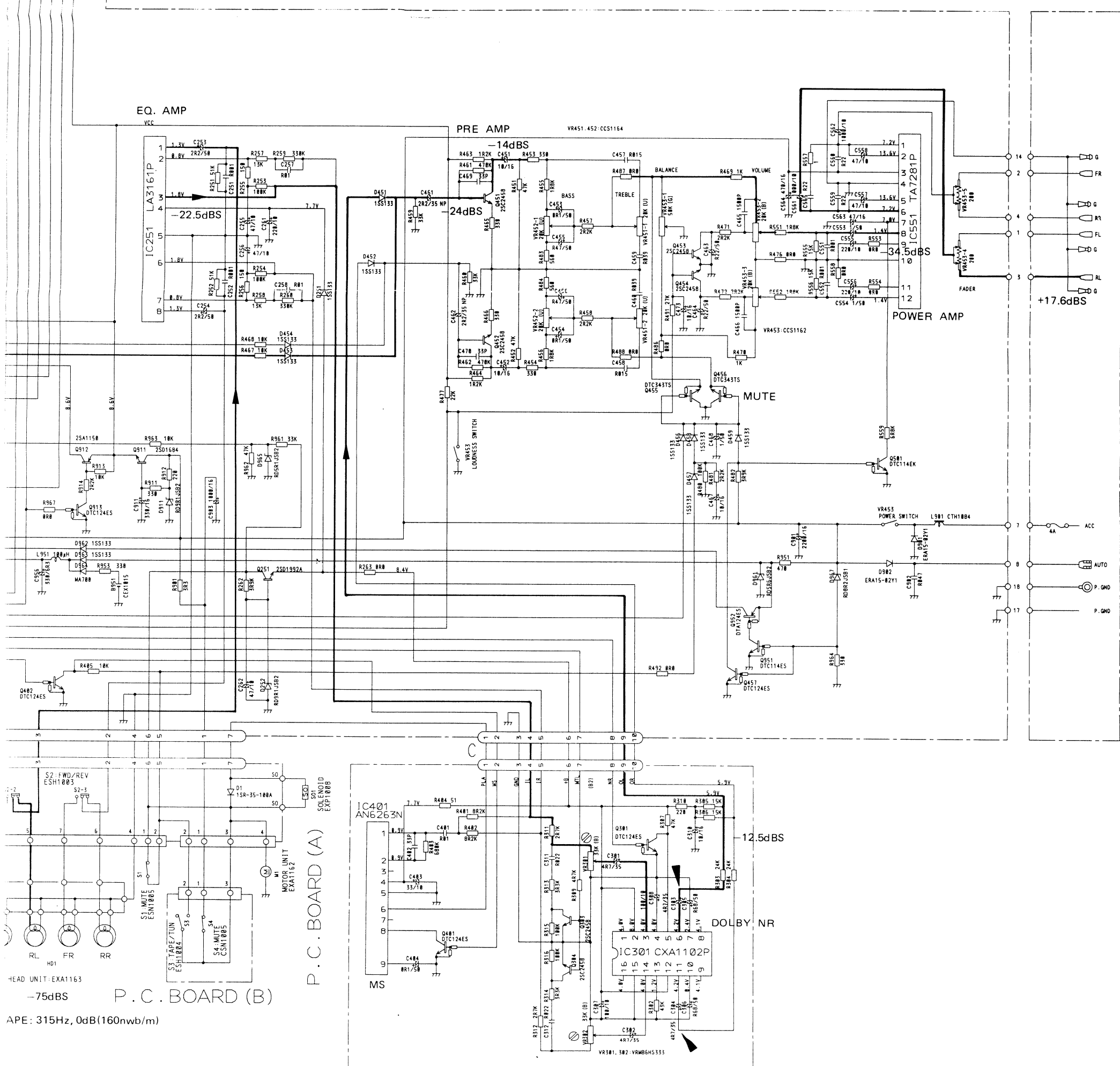
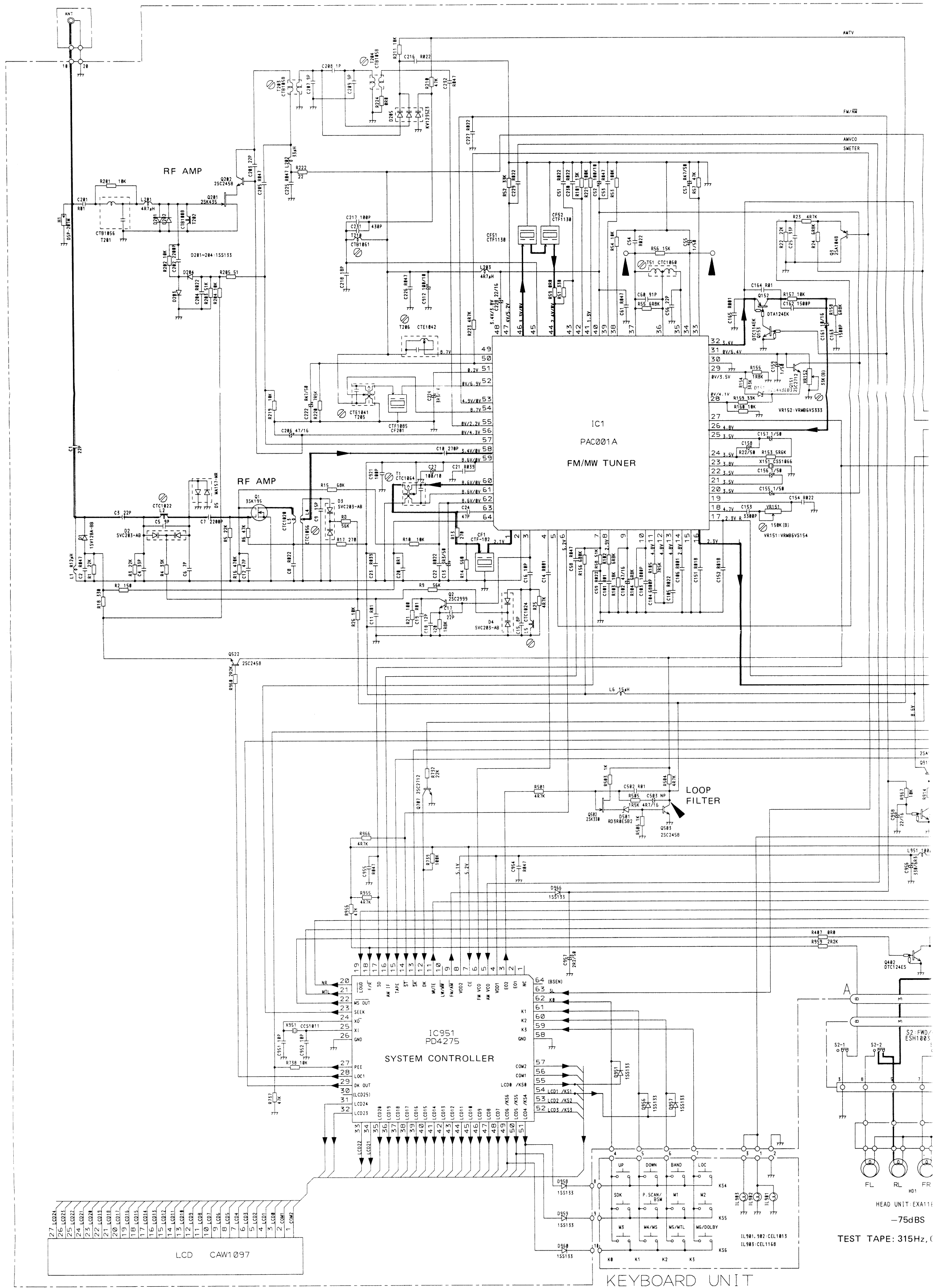
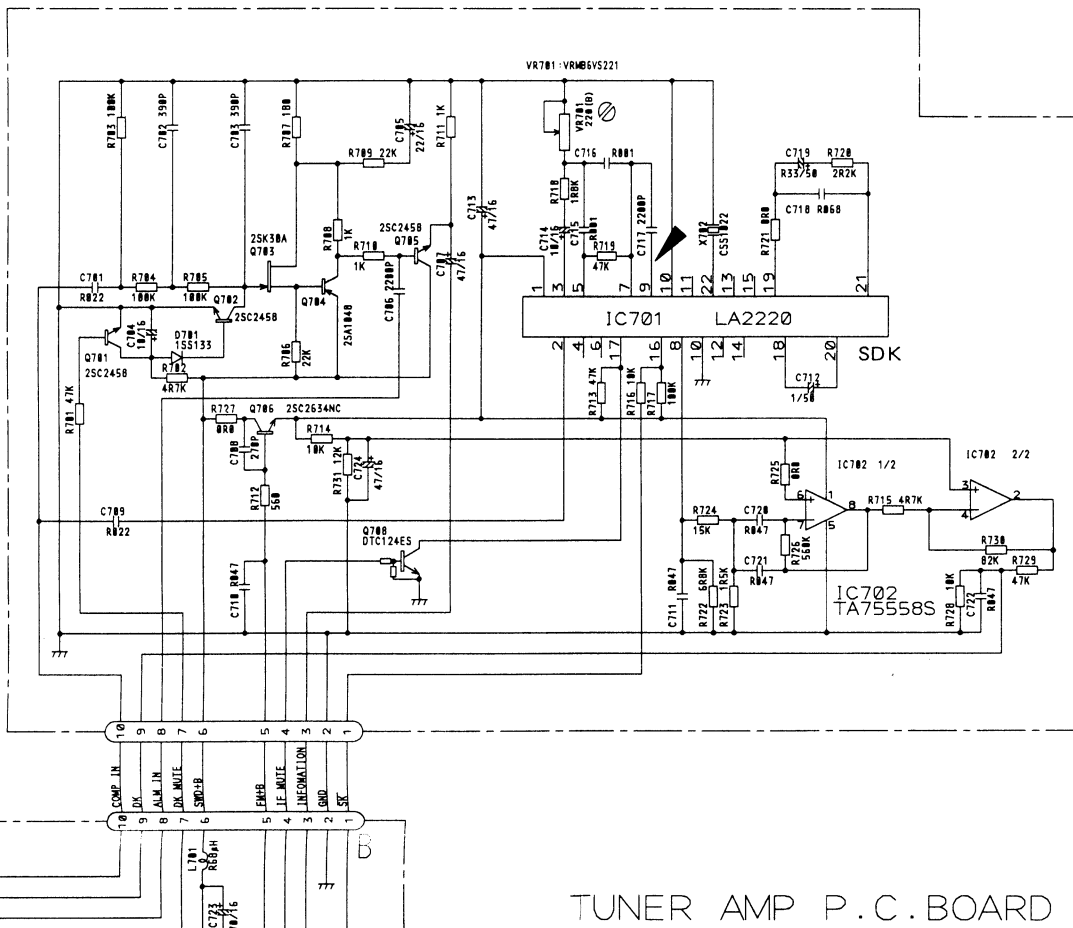


Fig. 11

9. SCHEMATIC CIRCUIT DIAGRAM (KE-3700SDK)



SDK P.C. BOARD



TUNER AMP UNIT

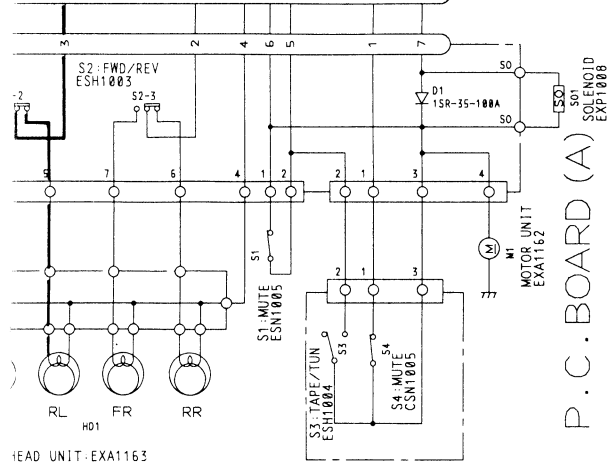
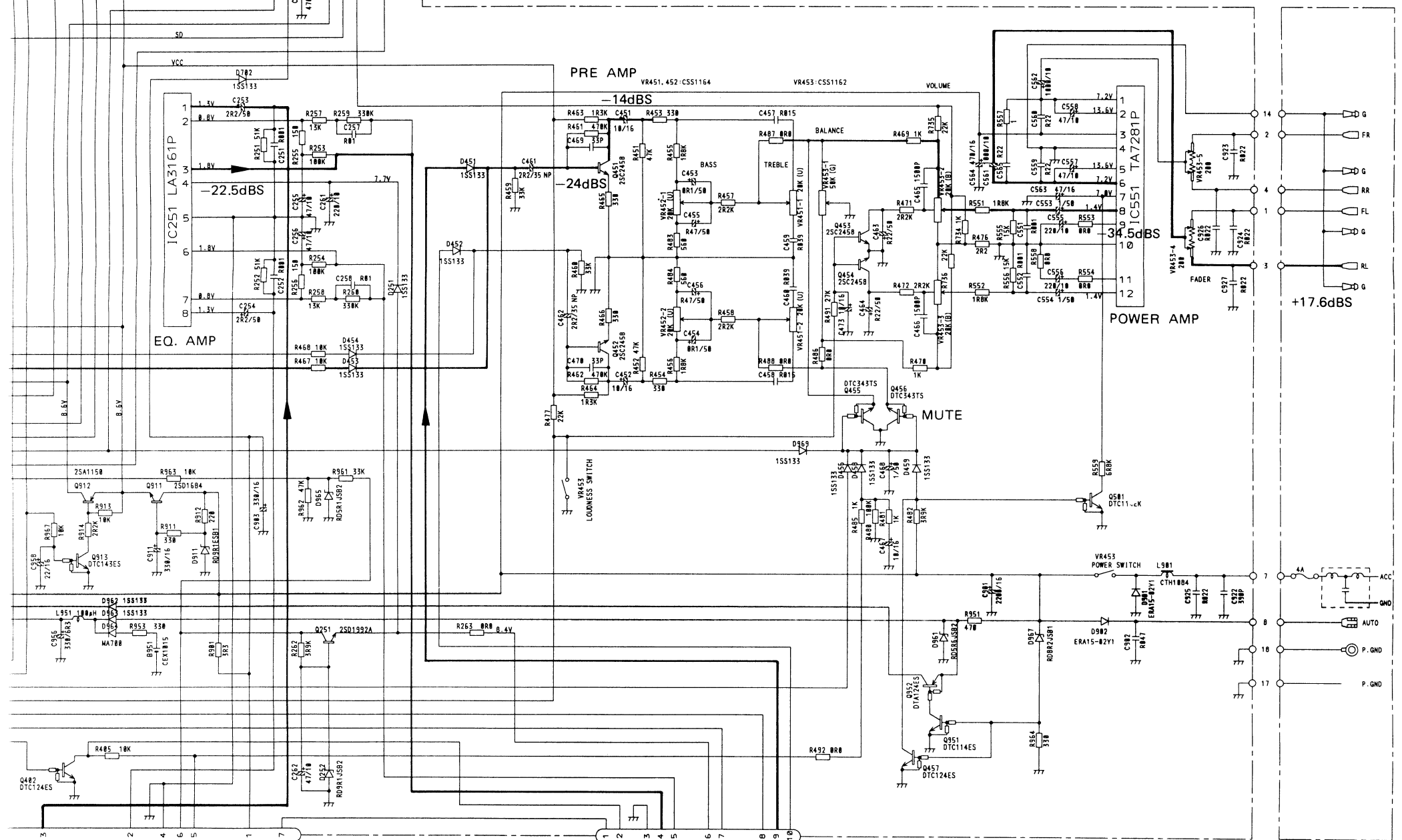
- Consists of
- SDK P.C. BOARD
- DOLBY NR P.C. BOARD
- TUNER AMP P.C. BOARD

NOTE:

- Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- |— Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:
2.2→2R2
0.022→R022

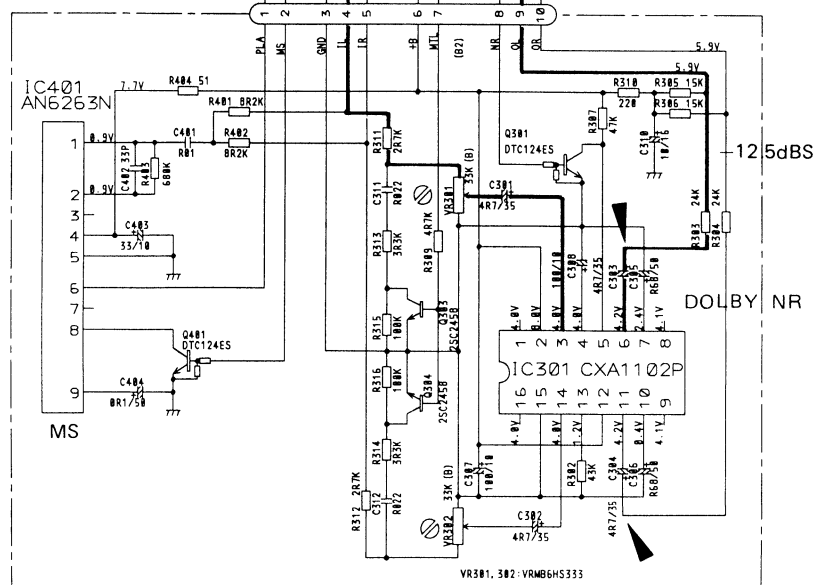
TUNER AMP P.C. BOARD



P.C. BOARD (A)

P.C. BOARD (B)

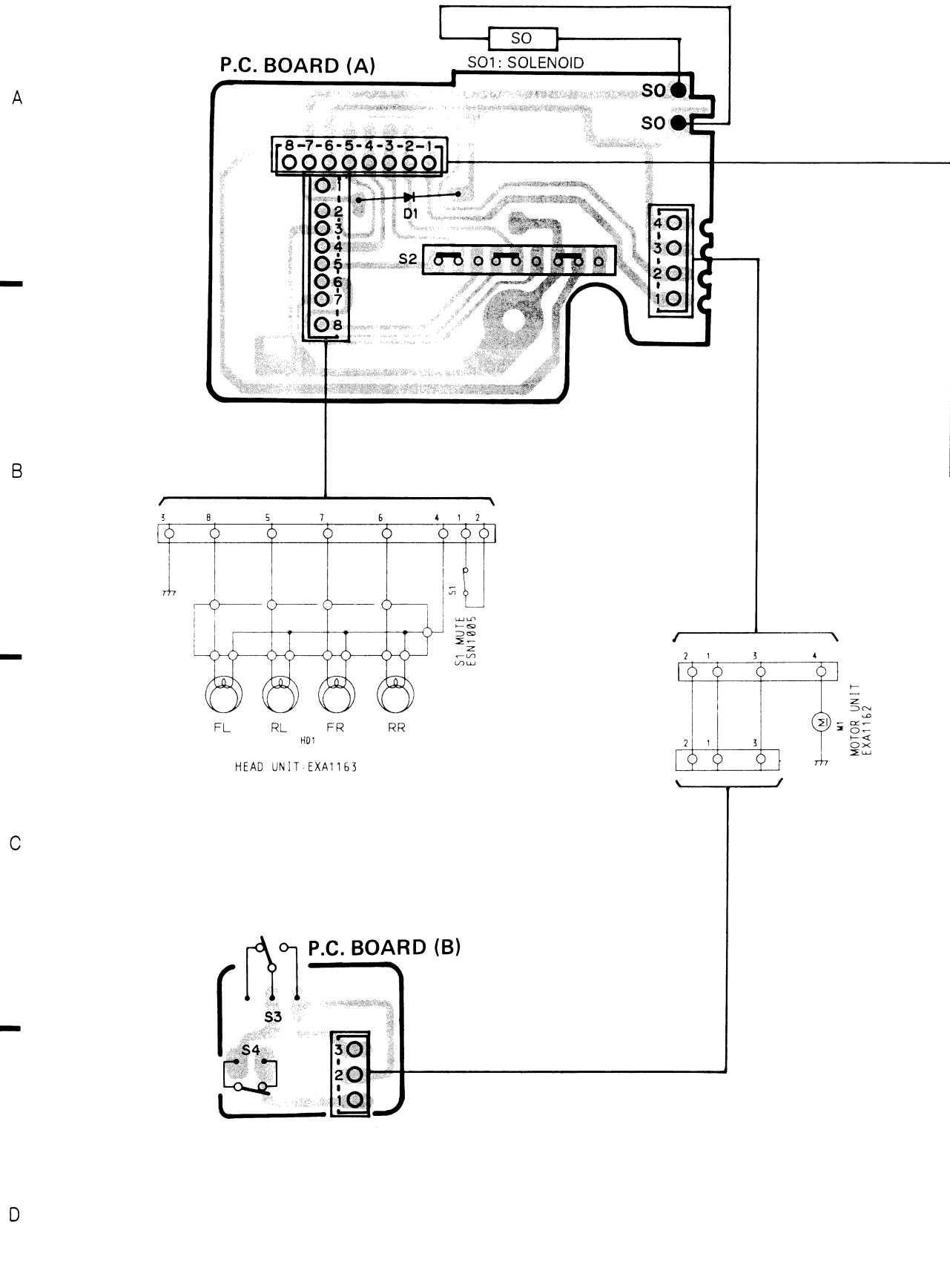
PE: 315Hz, 0dB(160nwb/m)



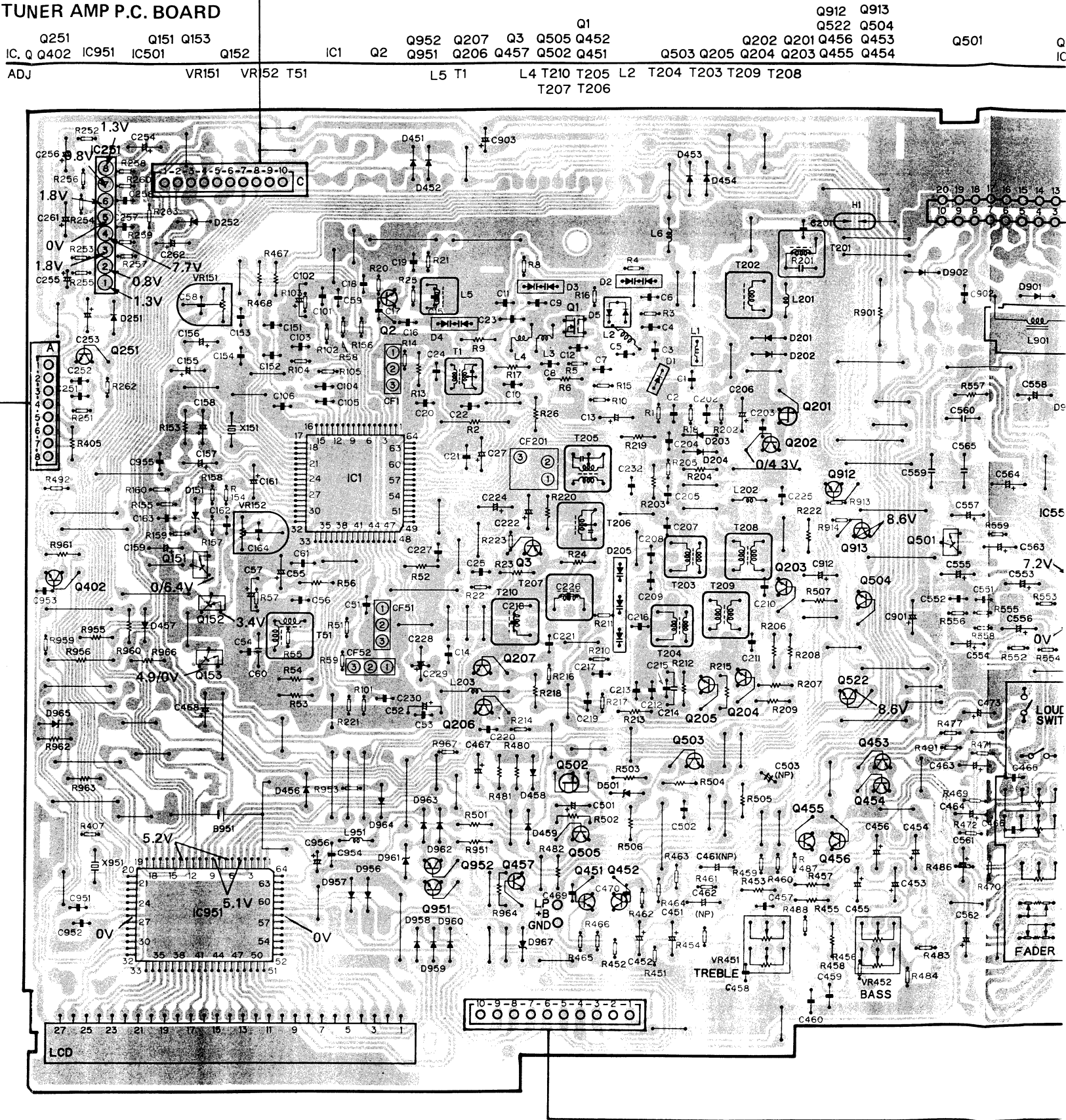
DOLBY NR P.C. BOARD

Fig. 10

11. CONNECTION DIAGRAM (KE-3730B)

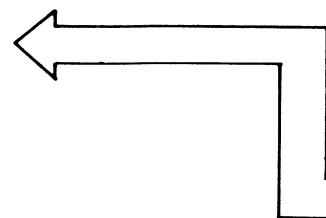
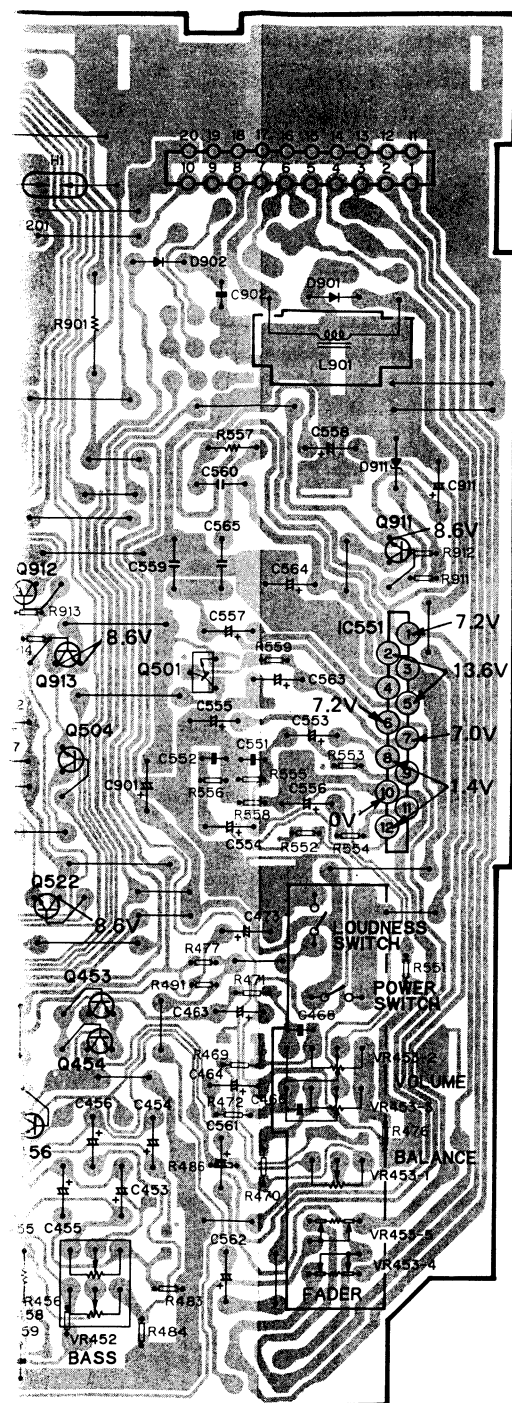


TUNER AMP P.C. BOARD



Q913
Q504
Q453
Q454

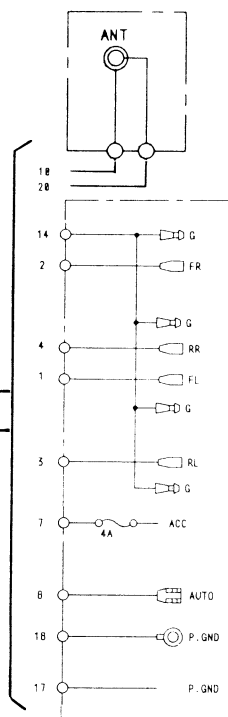
Q501
Q911
IC551



TUNER AMP P.C. BOARD: IC1

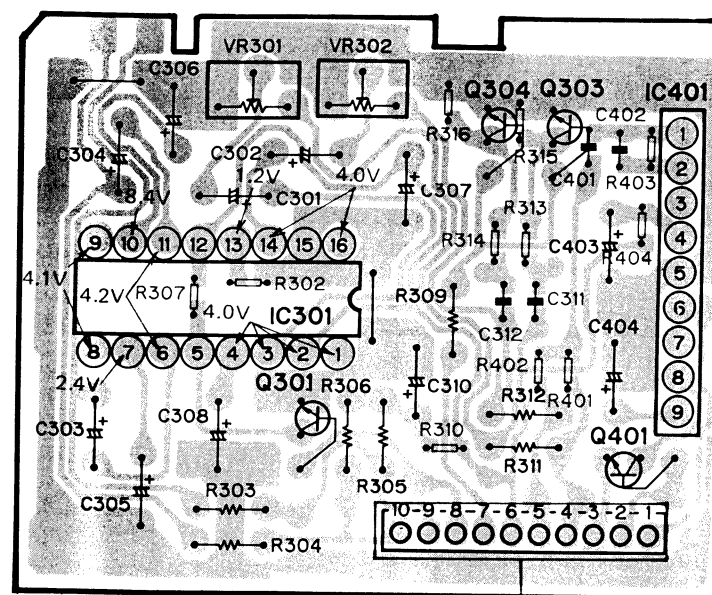
1	2	3	4	5	6	7	8	9	10
2.1V	0V				5.2V		2.9V		
11	12	13	14	15	16	17	18	19	20
4.8V	4.8V	4.8V	2.8V	0V	2.3V	2.3V	4.7V		3.5V
21	22	23	24	25	26	27	28	29	30
3.5V	3.5V	3.8V	3.5V	3.5V	4.8V		0/4.1V	0/3.5V	0V
31	32	33	34	35	36	37	38	39	40
0/6.4V	3.4V								
41	42	43	44	45	46	47	48	49	50
1.3V			2.4/0V		3.3/0V	4/5.2V	3.4/3.8V	8.7V	
51	52	53	54	55	56	57	58	59	60
0.2V	0/6.9V	4.9/0V	8.7V	0/2.2V	0/4.3V		3.4/0V	8.6/0V	8.6/0V
61	62	63	64						
8.6/0V	8.6/0V								

(FM/MW)



DOLBY NR P.C. BOARD

IC, Q
Q301
Q304
Q303
Q401



KEYBOARD UNIT

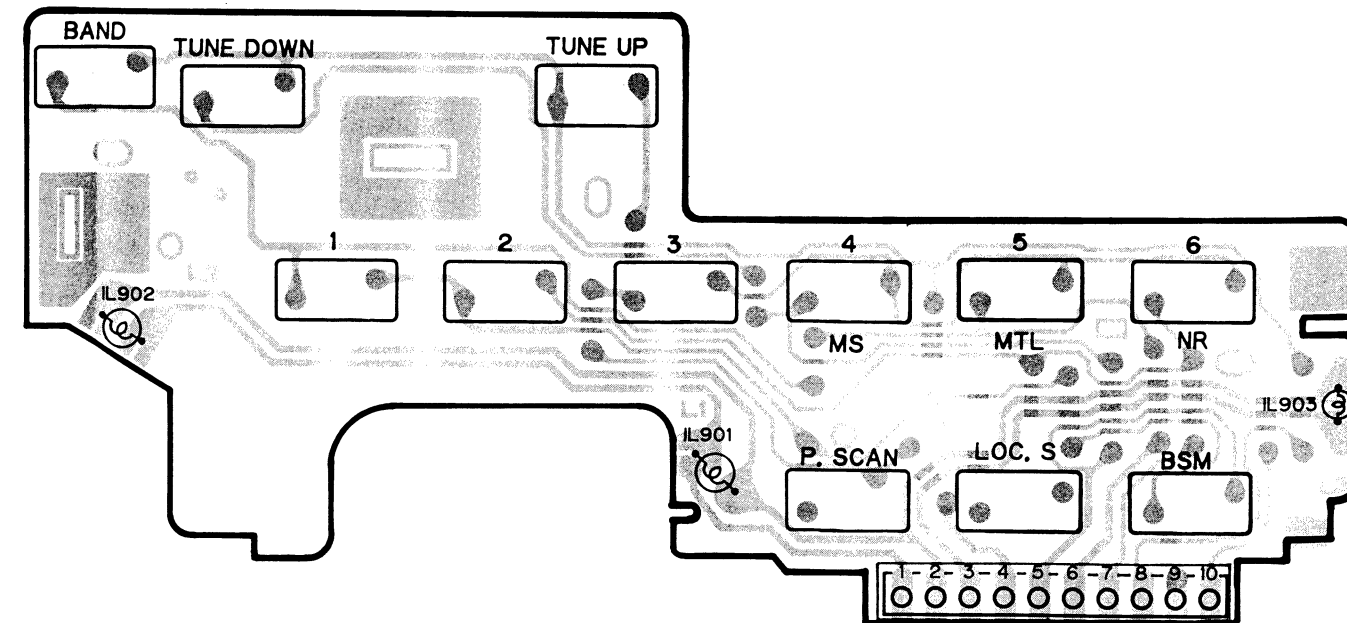


Fig. 12

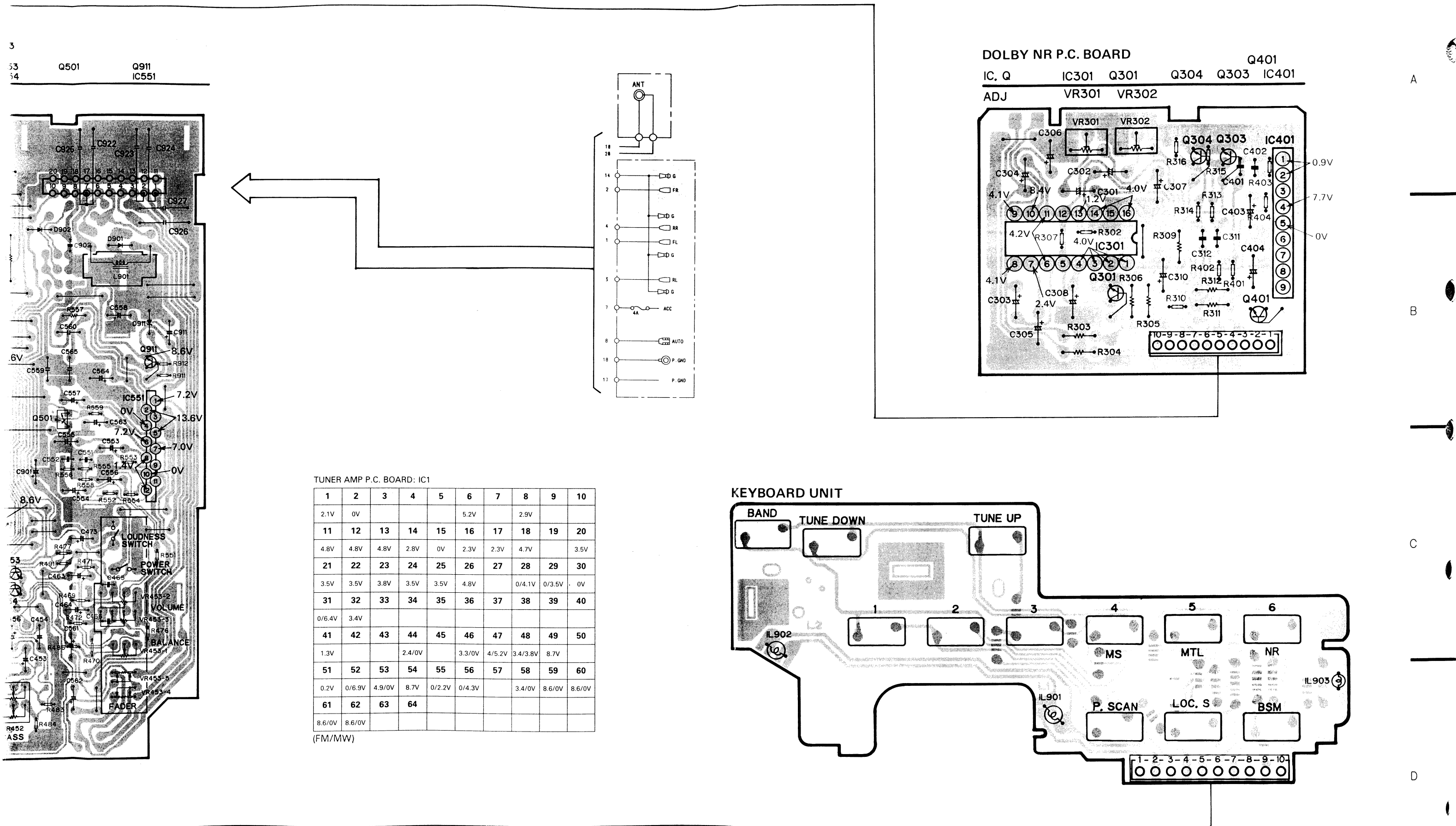
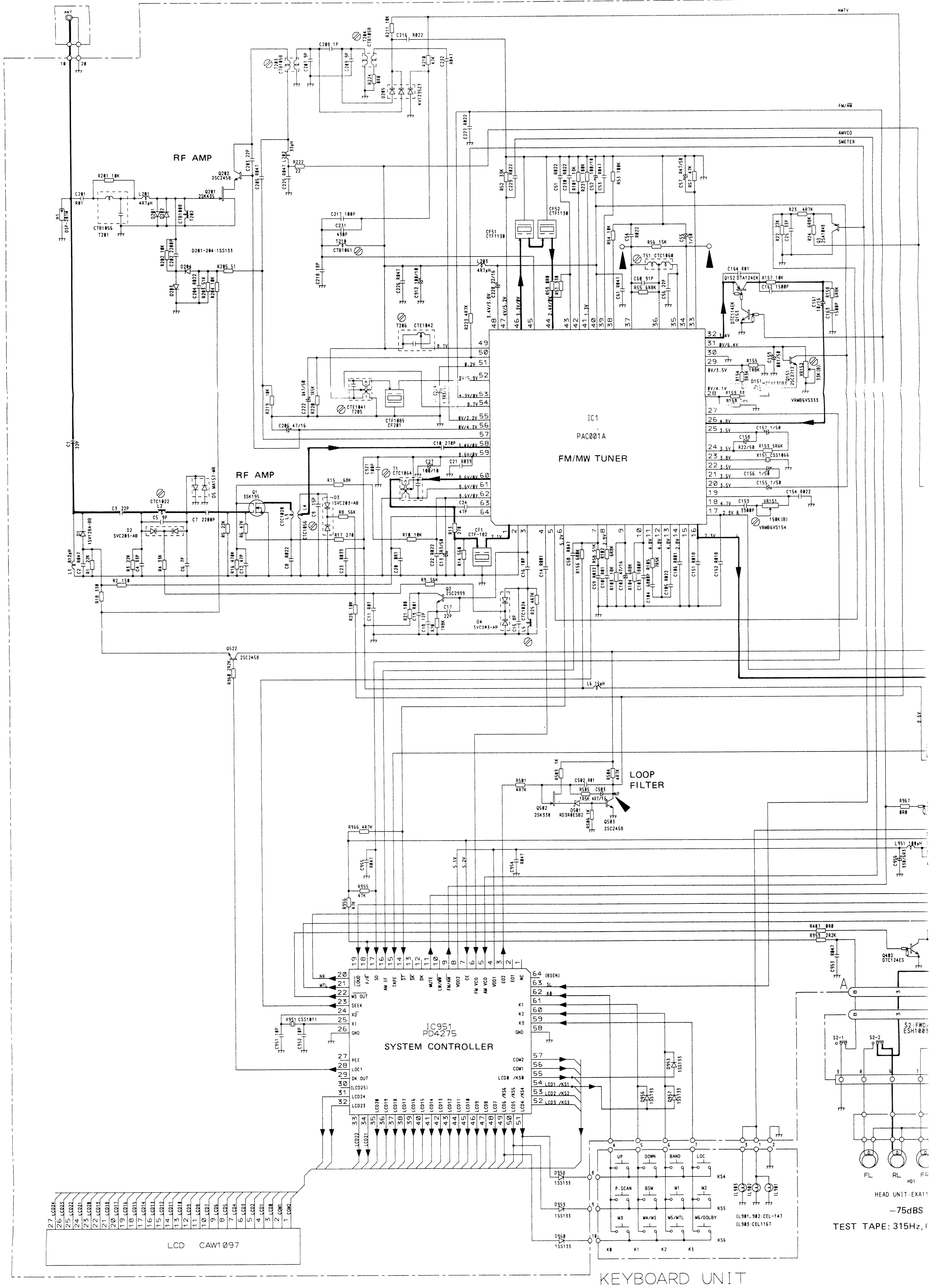


Fig. 13

13. SCHIMATIC CIRCUIT DIAGRAM (KE-3700B)



TUNER AMP UNIT
Consists of
●DOLBY NR P.C.BOARD
●TUNER AMP P.C.BOARD

NOTE:

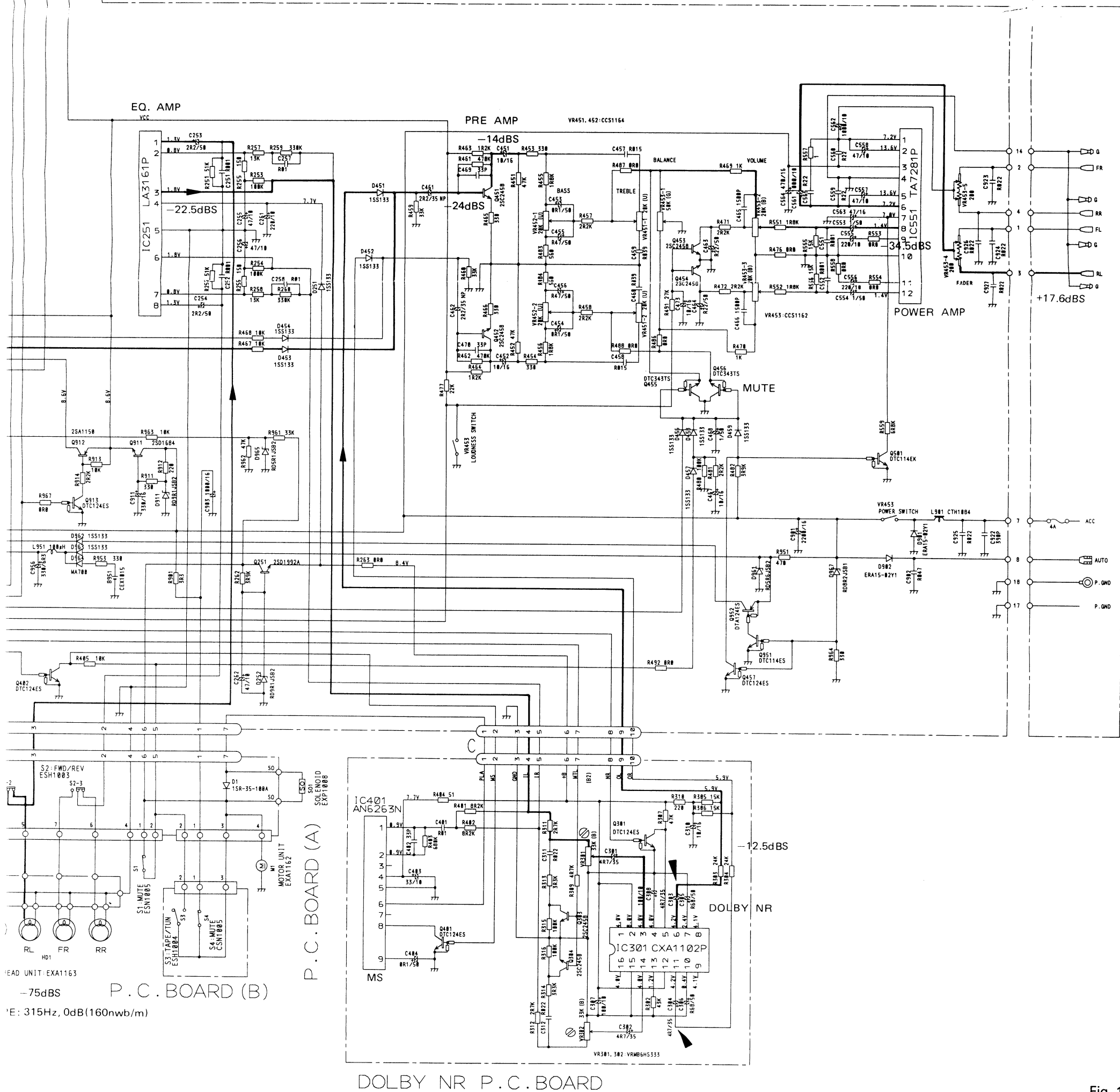
□ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.

—|— Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as:

2.2→2R2
0.022→R022

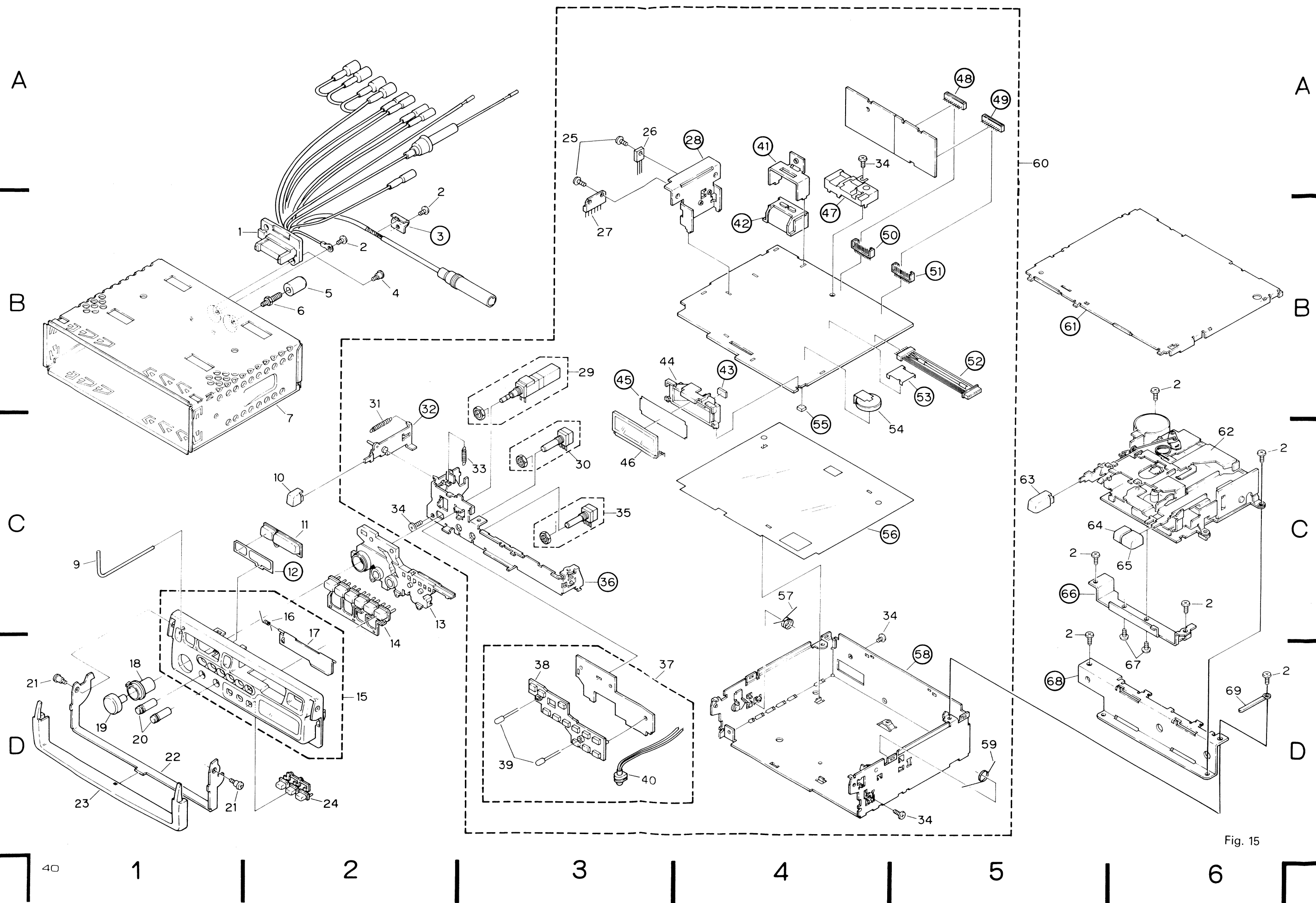
TUNER AMP P.C. BOARD



DOLBY NR P.C. BOARD

Fig. 14

14. EXPLODED VIEW



NOTE:
• Parts whose
• Parts marked
longer than

• Parts List

Mark No. De

1	Co
2	Sc
3	Cl
4	Sc
5	Bu
6	Sc
7	Bo
8	..
9	Sh
10	Bu
11	Bu
12	Sp
13	Le
14	Bu
15	Gr
16	Sp
17	Do
18	Kn
19	Kn
20	Kn
21	Sc
22	Ha
23	Co
24	But
25	Sc
26	Tr
27	IC
28	He
29	Vo
30	Vo
31	Sp
32	Le
33	Sp
34	Sc
35	Vo

Fig. 15

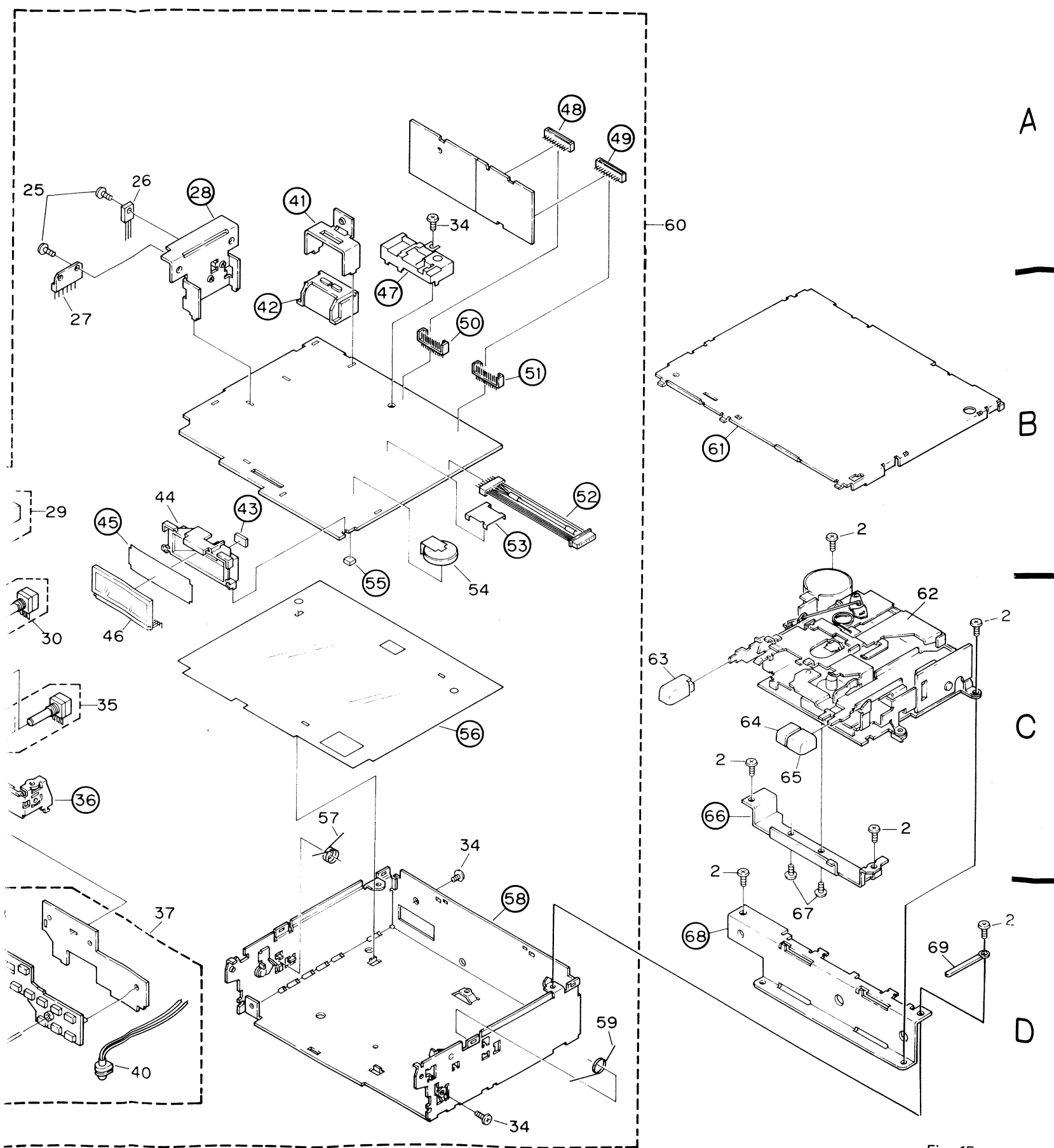


Fig. 15

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- Parts marked by "●" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

• Parts List (KE-3700SDK/WG)

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Cord Assy	CDE3289	36	Holder Unit	
2	Screw	BSZ30P060FMC	● 37	Key Board Unit	CWM2370
3	Clamper		38	Switch	CNV2519
4	Screw	CBA1073	39	Lamp	CEL1013
5	Bush	CNV1009	40	Lamp	CEL1168
6	Screw	CBA1002	41	Holder	
7	Box	CNB1358	42	Connector	
8	.....		43	Spacer	
9	Shaft	CLP1064	44	Holder	CNV2521
10	Button (QR EJECT)	CAC2548	45	Plate	
11	Button (BAND/TUNE)	CAC2544	46	LCD	CAW1097
12	Spacer		47	Case	
13	Lens	CNV2518	48	Connector	
14	Button (1-6)	CAC2692	49	Connector	
15	Grille Unit	CXA3684	50	Plug	
16	Spring	CBH1397	51	Plug	
17	Door	CAT1307	52	Connector	
18	Knob (FADER)	CAA1233	53	Shield	
19	Knob (VOLUME)	CAA1234	54	Battery	CEx1015
20	Knob (BASS/TREBLE)	CAA1235	55	Cushion	
21	Screw	CBA1165	56	Insulator	
22	Handle	CNC3262	57	Spring	CBH1374
23	Cover	CNV2520	58	Chassis Unit	
24	Button	CAC2671	59	Spring	CBH1366
25	Screw	BSZ30P080FMC	● 60	Tuner Amp Assy	CWM2368
26	Transistor	2SD1684	61	Case	
27	IC	TA7281P	● 62	Cassette Mechanism Assy	EXK1720
28	Heat Sink		63	Button (EJECT)	CAC2545
29	Volume (VOLUME)	CCS1162	64	Button (REW)	CAC2547
30	Volume (BASS)	CCS1164	65	Button (FF)	CAC2546
31	Spring	CBH1347	66	Bracket	
32	Lever Unit		67	Screw	BMZ26P040FMC
33	Spring	CBH-846	68	Bracket	
34	Screw	BSZ30P055FZK	69	Clamper	CEF-007
35	Volume (TREBLE)	CCS1164			

NSP:Non Spare Part

	KE-3700SDK/WG	KE-3730B/EW	KE-3700B/IT
Mark No. Description	Part No.	Part No.	Part No.
1 Cord Assy	CDE3289	CDE2975	CDE2975
15 Grille Unit	CXA3684	CXA3752	CXA3753
● 37 Key Board Unit	CWM2370	CWM2370	CWM2480
39 Lamp	CEL1013	CEL1013	CEL-147
40 Lamp	CEL1168	CEL1168	CEL1167
48 Connector	NSP	.....	.....
50 Plug	NSP	.....	.....
58 Chassis Unit	NSP (A)	NSP (B)	NSP (B)
● 60 Tuner Amp Assy	CWM2368	CWM2472	CWM2445
61 Case	NSP (A)	NSP (B)	NSP (A)

15. CASSETTE MECHANISM EXPLODED VIEW

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Reel Unit	EXA1167	46	Switch	ESH1004
2	Gear Unit	EXA1159	47	Switch	CSN1005
3	Washer	CBF1037	48	Screw	CBA1025
4	Gear	ENV1230	49	Gear	ENV1229
5	Gear	ENV1203	50	Washer	CBF1038
6	Gear	ENV1204	51	Belt	ENT1020
7	Gear	ENV1212	52	Gear	ENV1209
8	Gear	ENV1211	53	Arm Unit	EXA1155
9	Sub Chassis Unit		54	Washer	YE30FUC
10	Arm	ENV1210	55	Spring	EBH1310
11	Screw	BMZ20P025FMC	56	Flywheel Unit	EXA1161
12	Spring	EBH1304	57	Belt	ENT1018
13	Screw	JFZ20P040FNI	58	Arm	ENV1206
14	Collar	ELA1220	59	Spring	EBH1317
15	Shaft		60	Gear	ENV1205
16	Lever	ENC1202	61	Chassis Unit	
17	Washer	EBF1015	62	Screw	JFZ20P025FNI
18	Gear	ENV1268	63	Bracket	
19	Spring	EBH1313	64	Pulley	ENV1207
20	Spring	EBH1314	65	Solenoid	EXP1008
21	Lever	ENC1208	66	Screw	EBA1023
22	Spring	EBH1307	67	Plug	
23	Tube		68	P.C. Board	
24	Spring	EBH1306	69	Switch	ESH1003
25	.....		70	Washer	WH23FMC
26	Lever	ENC1209	71	Screw	BSZ23P040FMC
27	Spring	EBH1316	72	Screw	CBA1015
28	Arm	ENC1222	73	Head Unit	EXA1163
29	Spring	EBH1308	74	P.C. Board	ENP1042
30	Washer	YE15FUC	75	Switch	ESN1005
31	Arm	ENC1221	76	Washer	YE20FUC
32	Spring	EBH1305	77	Pinch Roller Unit	EXA1154
33	Frame	ENC1204	78	Washer	YE12FUC
34	Arm	ENC1215	79	Roller	ELA1250
35	Shaft	ELA1251	80	Arm Unit	EXA1166
36	Holder	ENC1205	81	Screw	CBA1038
37	Spring	EBH1344	82	Arm	ENV1227
38	Lever	ENV1222	83	Spring	EBH1312
39	Head Base Unit	EXA1152	84	Arm	ENC1212
40	Tube		85	Spring	EBH1322
41	Spring	EBH1315	86	Lever	ENC1228
42	Motor Unit	EXA1162	87	Spring	EBH1331
43	Screw	PMS26P025FUC	88	Lever	ENC1229
44	Screw	CBA1054	89	Arm Unit	
45	P.C. Board		90	Pinch Roller Unit	EXA1153

Mark No.	Description	Part No.
91	Spring	EBH1318
92	Arm Unit	EXA1157
93	Spring	EBH1345
94	Collar	ELA1229
95	Screw	JGZ17P035FNI
96	Collar	ELA1252

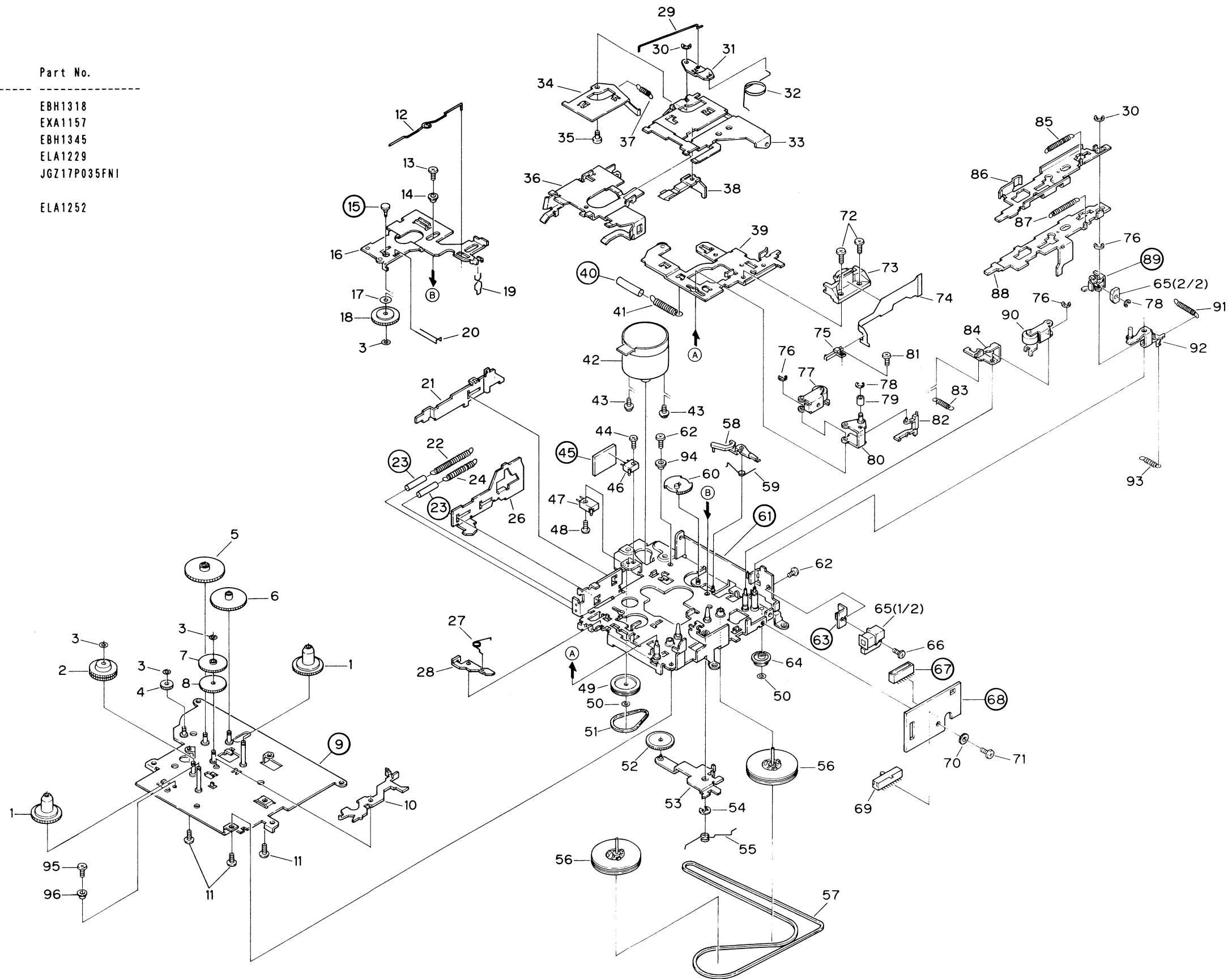


Fig. 16

16. PACKING METHOD

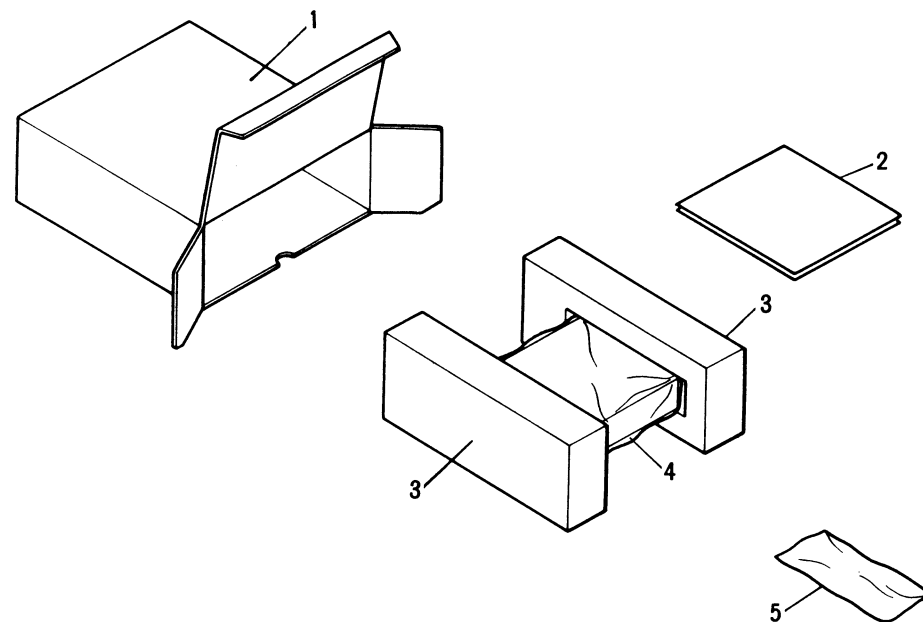


Fig. 17

● Parts List

Mark No.	Description	KE-3700SDK/WG	KE-3730B/EW	KE-3700B/IT
		Part No.	Part No.	Part No.
1	Carton	CHG1852	CHG1851	CHG1853
* 2-1	Owner's Manual	CRD1400	CRD1398	CRD1399
2-2	Card			
2-3	Caution Card		.....	.....
2-4	Passport		.....	.....
2-5	Caution Card		.....	.....
3	Styrofoam	CHP1355	CHP1355	CHP1355
4	Polyethylene Bag	CEG-162	CEG-162	CEG-162
* 5	Accessory Assy	CEA1584	CEA1584	CEA1584

* 5 Accessory Assy CEA1584		
Mark No.	Description	Part No.
5-1	Screw (× 1)	CBA-102
5-2	Screw (× 1)	CBA1002
5-3	Strap	CNF-111
5-4	Bush	CNV1009
5-5	Nut (× 2)	NF50FMC
5-6	Shaft	CLP1064

* 2-1 Owner's Manual

Part No.	Model	Language
CRD1400	KE-3700SDK/WG	German, French
CRD1398	KE-3730B/EW	English, French, German, Norwegian, Dutch
CRD1399	KE-3700B/IT	English, Spanish, Italian, Finnish, Swedish, Portuguese

17. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/8S □□□J, RS1/10S □□□J

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

Unit Number :
Unit Name : Keyboard Unit (KE-3700SDK/WG, KE-3730B/EW)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IL	901	902		Lamp 14V 40mA	CEL1013
IL	903			Lamp 14V 40mA	CEL1168

Unit Number :
Unit Name : Keyboard Unit (KE-3700B/IT)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
IL	901	902		Lamp 14V 40mA	CEL-147
IL	903			Lamp 14V 40mA	CEL1167

Unit Number :
Unit Name : P.C. Board (A)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S	2			Switch (FWD/REV)	ESH1003
D	1				1SR-35-100A

Unit Number :
Unit Name : P.C. Board (B)

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S	3			Switch (TAPE/TUN)	ESH1004
S	4			Switch (MUTE)	CSW1005

Miscellaneous Parts List

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
S	1			Switch (MUTE)	ESW1005
M	1			Motor Unit	EXA1162
HD	1			Head Unit	EXA1163
SO	1			Solenoid	EXP1008

Tuner Amp Unit	
Consists of	
● SDK P.C. Board (KE-3700SDK/WG)	
● Dolby NR P.C. Board	
● Tuner Amp P.C. Board	

Tuner Amp Unit (KE-3700SDK/WG)

MISCELLANEOUS

Mark	=====	Circuit Symbol & No.	=====	Part Name	Part No.						
IC	1				PAC001A						
IC	251				LA3161P						
IC	301				CXA1102P						
IC	401				AN6263N						
IC	551				TA7281P						
IC	701				LA2220						
IC	702				TA75558S						
IC	951				PD4275						
Q	1		Chip Transistor		3SK195						
Q	2				2SC2999						
Q	3	704			2SA1048						
Q	151		Chip Transistor		2SC2712						
Q	152		Chip Transistor		DTA124EK						
Q	153		Chip Transistor		DTC114EK						
Q	201				2SK435						
Q	202	303	304		2SC2458						
Q	251				2SD1992A						
Q	301	401	402	457	708	DTC124ES					
Q	451	452	453	454	503	522	701	702	705	2SC2458	
Q	455	456								DTC343TS	
Q	501			Chip Transistor						DTC114EK	
Q	502									2SK330	
Q	703									2SK30A	
Q	706									2SC2634MC	
Q	707									2SC2712	
Q	911									2SD1684	
Q	912									2SA1150	
Q	913									DTC143ES	
Q	951									DTC114ES	
Q	952									DTA124ES	
D	1			Chip Diode						1SV128A-BB	
D	2	3	4	Variable Capacitance Diode						SVC203-AB	
D	5			Chip Diode						MA157-MR	
D	151									HZS4R3EB3	
D	201	202	203	204	251	451	452	453	702	1SS133	
D	205				Variable Capacitance Diode					KV1235Z3	
D	252	911								RD9R1JSB2	
D	454	456	458	459	701					1SS133	
D	501									RD3R0ESB2	
D	901	902								ERA15-02Y1	
D	951	956	957	958	959	960	962	963	966	969	1SS133
D	961										RD5R6JSB2
D	964										MA700
D	965										RD5R1JSB2
D	967										RD8R2JSB1
L	1			Inductor 0.12μH							CTF1065
L	2			Coil							CTC1022
L	3			Coil							CTC1020
L	4			Coil							CTC1056
L	5			OSC Coil							CTC1024

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
L	6			Inductor 15 μ H	LAU150K	R	56	305 306 724			RD1/4PS153JL
L	201			Ferri-Inductor 4.7 μ H	LAU4R7K	R	57	210 307 451 701 713 719 729			RS1/10S473J
L	202			Ferri-Inductor 33 μ H	LAU330K	R	58				RS1/10S513J
L	203			Ferri-Inductor 4.7 μ H	CTF-161	R	59				RS1/10S0R0J
L	701			Micro-Inductor 0.68 μ H	LAUR68M	R	101				RS1/10S133J
L	901			Choke Coil	CTH1084	R	102				RS1/10S682J
L	951			Ferri-Inductor 100 μ H	LAU101K	R	103				RS1/10S183J
T	1			Coil	CTC1064	R	104				RS1/10S682J
T	51			Coil	CTC1060	R	105				RS1/10S752J
T	201			Coil	CTB1056	R	153				RD1/4PS562JL
T	202			Coil	CTB1008	R	154				RS1/10S332J
T	203	204		Coil	CTB1058	R	155	718			RS1/10S182J
T	205			Coil	CTE1041	R	156				RS1/10S684J
T	206			Coil	CTE1042	R	158				RS1/10S682J
T	210			Coil	CTB1061	R	159				RS1/10S333J
CF	1			Ceramic Filter	CTF-182	R	160				RS1/10S103J
CF	51	52		Ceramic Filter	CTF1130	R	203				RD1/4PS513JL
CF	201			Filter	CTF1085	R	205				RS1/10S510J
H	1			Surge Protector	DSP-201M	R	211				RS1/10S103J
X	151			Ceramic Resonator	CSS1066	R	220				RD1/4PS752JL
X	702			Ceramic Resonator	CSS1022	R	221				RS1/10S104J
X	951			Crystal Resonator	CSS1011	R	222				RD1/4PS220JL
VR	151			Semi-fixed 150k Ω (B)	VRMB6VS154	R	224	407 486 487 488 553 554 558 721			RS1/10S0R0J
VR	152			Semi-fixed 33k Ω (B)	VRMB6VS333	R	253	254 315 316 703 704 705 717			RS1/10S104J
VR	301	302		Semi-fixed 33k Ω (B)	VRMB6HS333	R	251	252			RS1/10S513J
VR	451	452		Volume 20k Ω (U)	CCS1164	R	255	256			RS1/10S151J
VR	453			Volume/Switch 200 Ω , 50k Ω (G), 20k Ω (B)	CCS1162	R	257	258			RS1/10S133J
VR	701			Semi-fixed 220 Ω (B)	VRMB6VS221	R	259	260			RS1/10S334J
B	951			Battery	CEX1015	R	262				RS1/10S392J
				LCD	CAW1097	R	263	492			RS1/8S0R0J
RESISTORS						R	302				RS1/10S433J
Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	R	303	304			RD1/4PS243JL
R	1	3 5 477 706 736			RS1/10S223J	R	309	501 504 715 955 966			RD1/4PS472JL
R	2				RD1/4PS151JL	R	310	912			RS1/10S221J
R	4	459 460			RS1/10S333J	R	311	312			RD1/4PS272JL
R	6	962			RD1/4PS473JL	R	313	314			RS1/10S332J
R	8				RS1/10S563J	R	401	402			RS1/10S822J
R	9				RD1/4PS563JL	R	403				RS1/10S684J
R	10	157 201 202 714 716 728			RS1/10S103J	R	404				RS1/10S510J
R	13				RD1/4PS271JL	R	452				RS1/10S473J
R	14				RS1/10S561J	R	453	964			RD1/4PS331JL
R	15				RS1/10S683J	R	454				RS1/10S331J
R	16				RS1/10S474J	R	455				RD1/4PS182JL
R	17				RD1/4PS271JL	R	456	551 552			RS1/10S182J
R	18	465 466			RS1/10S331J	R	457	458 960			RD1/4PS222JL
R	20				RS1/10S182J	R	461	462			RS1/10S474J
R	21				RS1/10S101J	R	463	464			RS1/8S132J
R	22				RS1/10S223J	R	469	470			RS1/8S102J
R	23				RD1/4PS472JL	R	471				RS1/8S222J
R	24				RD1/4PS682JL	R	472				RS1/8S222J
R	25	223 702			RS1/10S472J	R	476				RS1/10S2R2J
R	26	204 219 405 467 468 963			RD1/4PS103JL	R	481	485			RD1/4PS102JL
R	51				RS1/10S331J	R	482				RD1/4PS392JL
R	52				RD1/4PS333JL	R	483	484			RS1/10S561J
R	53	480			RD1/4PS104JL	R	491				RS1/10S273J
R	54				RD1/4PS103JL	R	503	506			RD1/4PS102JL
R	55	722			RS1/10S682J	R	505	723			RD1/4PS152JL
						R	555	556			RS1/10S153J
						R	557				RD1/4PS010JL
						R	559				RS1/10S682J

Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	Mark	====	Circuit Symbol & No.	====	Part Name	Part No.
R	707				RS1/10S181J	C	165				CKSQYB102K50
R	708	710 711 734			RS1/10S102J	C	208				CCSQCH010C50
R	709				RD1/4PS223JL	C	217				CCSQRH101J50
R	712				RS1/10S561J	C	218				CCSQJ1180J50
R	720	914 959			RS1/10S222J	C	222	455 456			CEAR47M50LS2
R	725	727			RS1/10S0R0J	C	225	232 711 722			CKSQYB473K25
R	726				RS1/10S564J	C	228	705			CEA220M16LS
R	730				RS1/10S823J	C	229	230 311 312 701 709			CKSQYB223K50
R	731				RS1/10S123J	C	231				CQPA43102A
R	732				RD1/4PS223JL	C	251	252			CKSQYB102K50
R	735				RS1/8S223J	C	253	254 957			CEA2R2M50LS2
R	737				RS1/8S473J	C	255				CEA470M10LS
R	738				RS1/8S103J	C	256	262 557 558			CEA470M10L2
R	739				RS1/10S104J	C	257	258			CKSQYB103K50
R	901				RD1/2PS3R3JL	C	261	555 556			CEA221M10L2
R	911				RS1/10S331J	C	301	302 303 304			CEA4R7M35LS
R	913				RS1/10S103J	C	305	306			CEAR68M50LS2
R	951				RD1/4PS471JL	C	403				CEA330M10LS
R	953				RS1/10S331J	C	404	453 454			CEA0R1M50LS2
R	956				RD1/4PS473JL	C	457	458			CKSQYB153K50
R	961				RD1/4PS333JL	C	459	460			CKSYB393K25
R	967				RS1/10S103J	C	461	462			CEALNP2R2M35
CAPACITORS						C	463	464			CEAR22M50L2
						C	468				CEA010M50LS2
						C	473				CEA100M16LS2
Mark	====	Circuit Symbol & No.	====	Part Name	Part No.	C	503	4.7 μ F/16V			CCH1005
C	1	3 17 56 203			CCSQCH220J50	C	551	552			CKSQYB102K50
C	2	53 58 205 226 710 902 955			CKSQYF473Z50	C	553	554			CEA010M50L2
C	4	25 402 469 470			CCSQCH330J50	C	559	560 565			CQEA224J63
C	5	207 209			CCSQTH090D50	C	561	562			CEA102M10L2
C	6				CCSQTH070D50	C	564				CEA471M16L2
C	7	202 706 717			CKSQYB222K50	C	702	703			CKSQYB391K50
C	8	22			CKSQYB223K50	C	708				CCSQSL271J50
C	9				CCSQTH150J50	C	712				CEA010M50LS2
C	10				CCSQSL271J50	C	715	716			CQMA102J50
C	11				CKSQYB103K50	C	718				CQMA683J50
C	12	24			CCSQCH470J50	C	719				CEAR33M50LS2
C	13	224			CEA3R3M50LS	C	720	721			CQMA473J50
C	14				CKSQYB102K50	C	723				CEA471M16L2
C	15				CCSQCH080D50	C	901				CEA222M16L2
C	16				CCSQCH100D50	C	903	911			CEA331M16L2
C	18				CCSQCH120J50	C	921				CCSQSL101J50
C	19	101 164 201 401 502			CKSQYB103K50	C	922				CKDYB391K50
C	20				CKSQYF104Z50	C	923	924 925			CKPYF223Z25L
C	21	23			CKSYB393K50	C	926	927			CKPYF223Z25L
C	27	52 307 308 912			CEA101M10LS	C	951	952			CCSQCH100D50
C	51	54 59 105 154 204 216 227			CKSQYB223K50	C	956				CEA331M6R3L2
C	55	155 156 157			CEA010M50LS2	C	958				CEA220M16LS
C	57				CEAR47M50LS2						
C	60				CCDLH910J50						
C	61	954			CKSYB473K50						
C	102	206 563 707 713 724			CEA470M16LS						
C	103				CKSQYB182K50						
C	104				CKSQYB682K50						
C	106				CKSQYB102K50						
C	151	152			CKSQYB183J50						
C	153				CKSQYB332K50						
C	158				CEAR22M50LS2						
C	159				CEA0R1M50LS2						
C	161	310 451 452 467 704 714			CEA100M16LS2						
C	162	163 465 466			CKSQYB152K50						

Tuner Amp Unit
MISCELLANEOUS

	KE-3700SDK/WG	KE-3730B/EW	KE-3700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
IC701	LA2220	.....	.....
IC702	TA75558S	.....	.....
Q203, 204, 205, 206, 207	.....	2SC2458	.....
Q504	.....	DTC143ES	.....
Q505	.....	DTC124ES	.....
Q701, 702, 705	2SC2458	.....	.....
Q703	2SK30A	.....	.....
Q704	2SA1048	.....	.....
Q706	2SC2634NC	.....	.....
Q707	2SC2712	.....	.....
Q708	DTC124ES	.....	.....
Q913	DTC143ES	DTC124ES	DTC124ES
D457	.....	1SS133	1SS133
D701	1SS133	.....	.....
D702	1SS133	.....	.....
D951, 966, 969	1SS133	.....	.....
D953	.....	.....	1SS133
L701	LAUR68M	.....	.....
T202	CTB1008	CTB1004	CTB1008
T207	.....	CTB1059	.....
T208, 209	.....	CTB1062	.....
T210	CTB1061	CTB1060	CTB1061
X702	CSS1022	.....	.....
VR701	VRMB6VS221	.....	.....

RESISTORS

	KE-3700SDK/WG	KE-3730B/EW	KE-3700B/IT
Circuit Symbol & No.	Part No.	Part No.	Part No.
R206, 207, 215	.....	RD1/4PS474JL	.....
R208, 209, 213, 218	.....	RD1/4PS561JL	.....
R212	.....	RD1/4PS104JL	.....
R214	.....	RS1/10S821J	.....
R216, 217	.....	RS1/10S474J	.....
R224	RS1/10S0R0J	.....	RS1/10S0R0J
R463, 464	RS1/8S132J	RS1/8S122J	RS1/8S122J
R476	RS1/10S2R2J	RS1/10S0R0J	RS1/10S0R0J
R481	RD1/4PS102JL	RD1/4PS222JL	RD1/4PS222JL
R485	RD1/4PS102JL	.....	.....
R501	RD1/4PS472JL	RD1/4PS222JL	RD1/4PS472JL
R502	.....	RD1/4PS222JL	.....
R507	.....	RD1/4PS331JL	.....
R701, 713, 719, 729	RS1/10S473J	.....	.....
R702	RS1/10S472J	.....	.....
R703, 704, 705, 717	RS1/10S104J	.....	.....
R706, 736	RS1/10S223J	.....	.....
R707	RS1/10S181J	.....	.....
R708, 710, 711, 734	RS1/10S102J	.....	.....
R709	RD1/4PS223JL	.....	.....
R712	RS1/10S561J	.....	.....
R714, 716, 728	RS1/10S103J	.....	.....
R715	RD1/4PS472JL	.....	.....
R718	RS1/10S182J	.....	.....
R720	RS1/10S222J	.....	.....
R721	RS1/10S0R0J	.....	.....
R722	RS1/10S682J	.....	.....
R723	RD1/4PS152JL	.....	.....
R724	RD1/4PS153JL	.....	.....
R725, 727	RS1/10S0R0J	.....	.....
R726	RS1/10S564J	.....	.....
R730	RS1/10S823J	.....	.....
R731	RS1/10S123J	.....	.....
R732	RD1/4PS223JL	.....	.....
R735	RS1/8S223J	.....	.....
R737	RS1/8S473J	.....	.....
R738	RS1/8S103J	.....	.....
R739	RS1/10S104J	.....	.....
R955	RD1/4PS472JL	RD1/4PS473JL	RD1/4PS473JL
R967	RS1/10S103J	RS1/10S0R0J	RS1/10S0R0J

CAPACITORS

Circuit Symbol & No.	KE-3700SDK/WG	KE-3730B/EW	KE-3700B/IT
	Part No.	Part No.	Part No.
C165	CKSQYB102K50	.....	.....
C210, 211, 220, 221	.....	CKSQYF473Z50	.....
C212	.....	CCSQRH101J50	.....
C213	.....	CCSQCH180J50	.....
C214	.....	CQPA331G2A	.....
C215	.....	CCSQRH820J50	.....
C217	CCSQRH101J50	CKSQYB223K50	CCSQRH101J50
C219	.....	CCSQSH390J50	.....
C231	CQPA431G2A	.....	CQPA431G2A
C501	.....	CEAR47M50LS2	.....
C701, 709	CKSQYB223K50	.....	.....
C702, 703	CKSQYB391K50	.....	.....
C704, 714	CEA100M16LS2	.....	.....
C705	CEA220M16LS	.....	.....
C706, 717	CKSQYB222K50	.....	.....
C707, 713, 724	CEA470M16LS	.....	.....
C708	CCSQSL271J50	.....	.....
C710	CKSQYF473Z50	.....	.....
C711, 722	CKSQYB473K25	.....	.....
C712	CEA010M50LS2	.....	.....
C715, 716	CQMA102J50	.....	.....
C718	CQMA683J50	.....	.....
C719	CEAR33M50LS2	.....	.....
C720, 721	CQMA473J50	.....	.....
C723	CEA471M16L2	.....	.....
C903	CEA331M16L2	CEA102M16L2	CEA102M16L2
C921	CCSQSL101J50	.....	CCSQSL101J50
C922	CKDYB391K50	.....	CKDYB391K50
C923, 924, 925	CKPYF223Z25L	.....	CKPYF223Z25L
C926, 927	CKPYF223Z25L	.....	CKPYF223Z25L
C953	.....	CKSQYF473Z50	CKSQYF473Z50
C957	CEA2R2M50LS2	.....	.....
C958	CEA220M16LS	.....	.....